

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

SEPTEMBER 1, 1953



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Forms for the September 15 issue will close Monday, August 31.

Forms for the October 1 issue will close Monday, September 21.

Mail copy to arrive at Chicago by these dates—no later!

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**to a special storage warehouse
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Write for 1953-54 Price List



AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

KENNETH A. BRENT
Managing Editor

Editorial

SALES EMPHASIS

In reports of trade meetings in these pages, it is apparent that today nurserymen in their gatherings are discussing the special phases of selling to a greater extent than the older convention topics of propagation and production.

Much of this discussion has to do with the problems which retail nurserymen meet today in handling their large volume of business. The heavy demand in the face of the high cost—and sometimes scarcity—of labor makes important the more efficient methods of catering to the public. Hence, the discussion topics include salesyard design, display of stock, labeling, containers and a variety of other phases of retailing. The exchange of ideas on the meeting floor and in the reports in these pages is certain to promote the trade's service to the public. Some of the discussion, however, is on aspects of merchandising, advertising and selling generally, clearly indicating that nurserymen are becoming alive to the importance of marketing nursery stock, not only today but in the seasons ahead, when more stimulus may be needed by the industry itself.

Then, too, specialization is on the increase in this industry. Retail nurserymen in areas where wholesale sources of supply are handy and adequate are less likely to grow much of the stock they sell. They realize that selling is a job in itself and deserves more attention than in the past, in order that they may compete with other industries.

No longer does the retail nurseryman have the ambition to grow all or most of the stock he sells. In the past, retailers with such aspirations have planted so much, in the course of time, as to force themselves out of the retail and into the wholesale business, or to become so much of one and the other as to lose the efficiency of operating one type of enterprise.

The specialization today, with the greater emphasis on selling by the retailers, is certain to afford better service to the public and to promote

The Mirror of the Trade

the marketing of nursery stock in good seasons and poor ones. Cooperation of retailers and wholesale nurserymen should maintain the quality of the stock supplied the public. So the resultant satisfaction should produce greater public demand.

EXTENDING THE SEASON

There lately has been less discussion of prolonging the season for the sale—or perhaps, nowadays, delivery—of nursery stock, because the heavy demand has caused nurserymen to take more action to that end through necessity than they did formerly voluntarily.

Landscape nurserymen have found new orders crowding their operations to such extent that they have continued spring planting so far into the summer that there has been but a small gap before the beginning of early autumn planting. Crews have been kept busy in summer and winter on all types of work—preparing soil for planting, building walks and doing construction work—save only the actual transplanting of stock, and even this has been done under conditions not favored before.

In retail salesyards, customers have continued to call for stock so late in spring that the season there has been somewhat prolonged. The increased popularity of container-grown stock has considerably aided late planting.

As the public becomes better versed in gardening, autumn planting is sure to increase, provided nurserymen lend some promotional effort to it and have the stock ready to entice the buyers into their display grounds.

What is being learned under the exigencies of the strong current demand should make it possible to extend the sale and delivery of nursery stock over a greater number of months in the year, with improved stability of business and employment in this industry.

THE LEADING PASTIME

In a series of articles on the ways in which the American public spends its leisure, the Saturday Evening Post of August 8 carried an illustrated article, "Thirty Million Gardeners," in which it was asserted that gardening ranked No. 1 among the favorite pastimes.

The average citizen today, stated

the article, annually enjoys 1,000 more hours of leisure than did his grandfather. For diversion and relaxation, a majority of our citizens have turned to the soil, in which all of us inherit an interest from our ancestors.

While the article was largely devoted to the machines and gadgets which had been devised to take some of the manual labor out of amateur gardening, it emphasized the degree to which the public had become interested in growing flowers and vegetables. With that interest, of course, has developed an increased appreciation of other plants.

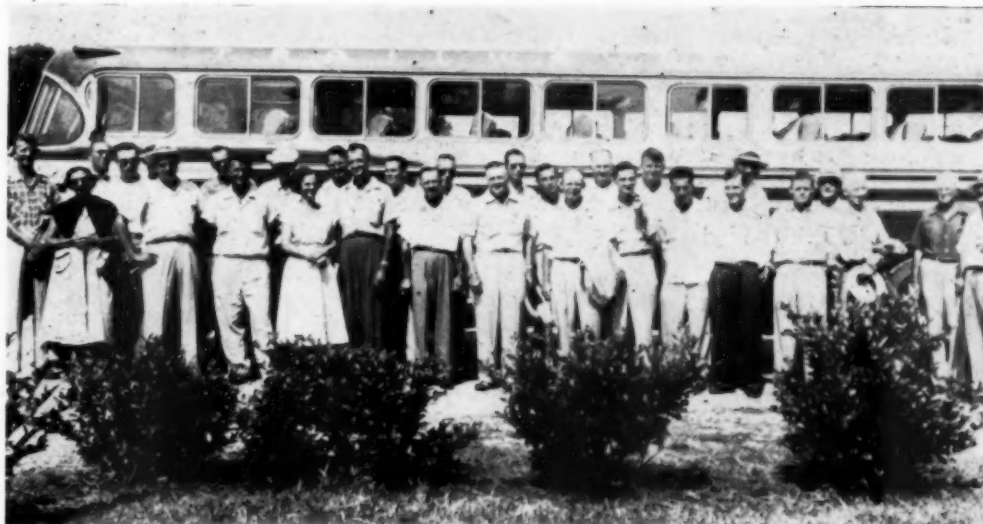
From that greater appreciation of the nurseryman's products by the public has come a share of the increased demand, along with that which has arisen from the boom in home building. While the building boom may abate in the course of time, the public's increased interest in gardening, together with its greater leisure time, is certain to maintain a high demand for nursery stock.

INTO PRINT

The number and quality of the articles, or "stories," on gardening and plant topics supplied newspapers of the country by the public relations office of the American Association of Nurserymen are such as to satisfy the trade as to the efficacy of this phase of market development work.

While many newspapers make thorough use of this material and others employ it occasionally, there are communities in which the stories are not seen in print. The editor of the local newspaper either is not awake to the garden interest in his area or is disinclined to use material from clip sheets.

The nurseryman in that community is losing a bet if he does not impress upon the editor the value of these articles, their authoritative merit and the interest his readers would have in them. A single visit may or may not win the editor's action. But persistent effort to this end would be worth while, because the nurseryman would see his prospective customers better informed on garden topics and the horticultural level of the community raised, aside from any ultimate beneficial effect on his sales of stock.



A Group of North Carolina Nurserymen Ready to Embark on the Summer Tour.

North Carolinians Tour Nurseries

By Howell Stroup

On July 27 and 28, the North Carolina Association of Nurserymen toured a few of the state's finest nurseries. Forty persons participated. A chartered bus was the mode of transportation employed, and from all reports the tour was highly successful. Owing to the time and distance involved, the group was comparatively limited in the area it canvassed. Because of this, the members are planning an eastern tour for next summer.

The primary purpose of the tour was to see what plants were being grown by the nurseries, so that ideas for new kinds of material could be developed. The North Carolina State College extension service is installing a plant trial ground where various types of plants from the nurseries of the state, as well as plants new to the state, will be grown and observed for their suitability for future use.

The secondary purpose of the tour was to enable owners to send or bring their foremen to the group to acquaint them with the different production methods being employed in the state. Nine foremen were in the group. The nurserymen also had it as their intention to study the types of irrigation used and, of course, any novel ideas of propagation they might find.

As for irrigation, the nurserymen found that, because of the recent succession of dry seasons, a variety

of methods of retaining moisture is being employed, the commonest being the use of sawdust as a mulch. However, even shavings were being used for this purpose.

Begin Tour at Julian

The tour originated at Julian, and the party made its first stop at the Lindley Nurseries, Inc., Friendship, 14 miles north of Greensboro. This is possibly the oldest nursery firm in the south, being 112 years old. It contains 200 acres and is ably operated by "Uncle" Joe Howard, the dean of North Carolina nurserymen. He has probably taught more persons the nursery trade than any other man. Among his pupils was his son, Bill, who is manager of the Howard Hickory Co., Hickory, N. C. Mr. Howard furnished an open truck for the tour of his nursery.

This firm specializes in conifers, hollies and other broad-leaved plants. The stock looked exceptionally healthy, even though it was without irrigation and the thermometer stood at 94 degrees Fahrenheit. Rain had been slight during the preceding months. The nursery digs its plants in the hot weather with much success. It has three greenhouses for propagation, with beds for the young plants in the sunlight, but under irrigation.

The next stop for the nurserymen was the College Village, Winston-Salem, where a luncheon arranged

for them by Dan Reynolds was thoroughly enjoyed.

After luncheon the nurserymen repaid Mr. Reynolds's courtesy by making a visit to the Reynolds Nursery Co., Lewisville, just west of Winston-Salem. This 60-acre nursery was established 85 years ago, following the Civil war, and was passed down to the four Reynolds brothers, who are engaged in landscaping and beautifying the estates of the "landed gentry" of the area.

The nursery specializes in broad-leaved plants and large landscape specimens, including hollies and shade and flowering trees. The nursery has a pond for its irrigation, and all rain falling in the area is directed to it. This is a method of water storage, used commonly on the island of Bermuda, which is becoming popular with nurseries in North Carolina, where there are no running streams for irrigation.

Cultivation at the Reynolds Nursery Co. is mostly by Super C Farm-all tractor, which has a 30-inch clearance for plants up to four feet tall. The nursery propagates in coldframes and has a slat house for small and shade-loving plants.

Boxwood Nurseries

The tour then moved to the Boxwood Nurseries, Mocksville, owned by H. W. Brown. This firm is about 40 years old and covers approximately 50 acres. Mr. Brown

has been in poor health for a number of years, and the business is actively managed by his son-in-law, G. A. Boger. The firm specializes in boxwoods, hemlocks, azaleas and the broad-leaved plants. It employs a most unusual method of propagation. A plain wood slat house is used, and the soil is mixed with peat moss for cuttings. The cuttings are left there for two years or more and then transplanted to the open field. Also grown under this house are camellias, azaleas, rhododendrons and other shade-loving plants. Many plants are grown in 10-foot beds, where sawdust and shavings are used for mulching.

Sign of Boxwoods

By way of advertising his business to travelers on the highway, Mr. Brown has "Boxwood Nurseries" spelled out with boxwoods planted on a slope in front of his stone, ranch-style house. This device has a good effect when seen from the highway.

There are approximately 10 nurseries in this area, apparently the soil here is especially suitable, but the association tour was unable to visit all of them. The next stop was at the Carolina Nurseries, Inc., five miles north of Charlotte. This 10-year-old firm is owned by George Coulter. It stands on 25 acres of ground. Though it is comparatively young, the nursery has plenty of experience behind it, as the owner's father, who at present owns and operates the Catawba Nursery, New-

ton, N. C., is a nurseryman of long standing. George Coulter also has three brothers who own or are otherwise connected with other nurseries within the state.

The Carolina Nurseries, Inc., has a general line of nursery stock and introduces new plants at the town of Piedmont. The nursery uses a semi-submerged greenhouse in propagation, thereby assuring cooler summers and warmer winters and providing for maximum moisture retention in the plant soil. Mr. Coulter's is an attractive nursery and has a particularly well-constructed office building, which includes a shed for storage of equipment, packing and shipping.

After this visit the party moved on to the Barringer hotel, at Charlotte, where the reservations and arrangements for dinner were made by Luther Harkey. The nurserymen stayed there for the night.

Mecklenburg Nurseries, Inc.

The first visit on the next day was made to the Mecklenburg Nurseries, Inc., two miles west of Charlotte. This firm covers about 40 acres and is 35 years old. It is operated by W. C. McDaniel, who is assisted by a charming wife and two sons, Joe and Harold. Mr. McDaniel has been prominent in affairs of the Southern Nurserymen's Association for the past 24 years. His business specializes in large specimen plants along with the routine nursery stock. The firm is meeting with

considerable success in growing camellias and azaleas, plants which have not been grown here before because of the climate. The organization also grows a quantity of plants in cans so as to extend the planting season. Most of the small plants grow under a shade house or under trees.

Hayes Nursery

The Hayes Nursery, not far from the Mecklenburg firm, was the next port of call. Edward G. Hayes owns and operates this 15-acre nursery with the assistance of his two sons. He uses a nearby lake for irrigation and has about two acres of irrigated woodland for plant growth. He has a general stock and specializes in hollies, broad-leaved and specimen plants. In fact, some of the best specimen plants observed on the tour were seen here. Mr. Hayes was originally a rose grower for Conard-Pyle Co., West Grove, Pa., having gone into business for himself after he acquired sufficient knowledge of plants.

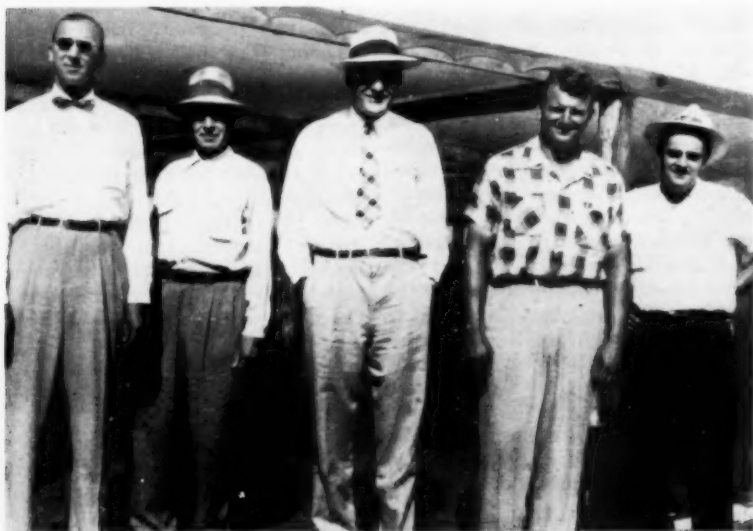
The party then was the guest of the Gill Mfg. Co., Charlotte, where Mr. Gilreath supervised a demonstration of his new type of pulverizer.

The Greenway Nursery, Inc., five miles east of Charlotte, was the next firm to receive the nurserymen. It is 3 years old and covers 10 acres. It is owned and operated by Warren Redd, who was associated with the Mecklenburg Nurseries for a number of years. He has a general stock, some especially fine hollies and broad-leaved evergreens, and the firm has excellent potentialities for a young enterprise. Mr. Redd has a small greenhouse, with a capacity of 10,000 plants, which is heated by steam from an oil burner and has thermostatic control. By the use of this equipment he was able to produce four houses of cuttings in one year with a good percentage of rooting.

Harkey's a Young Firm

The Frank Harkey Nursery, five miles south of Charlotte, has 15 acres and is 3 years old. It is owned and operated by Frank Harkey, who previously was in business with his brothers and consequently acquired a vast knowledge of the nursery business. The nursery has healthy stock, which is irrigated from a pond. Mr. Harkey utilizes trees for shade in the growth of young plants and cotton waste material for mulching, a common prac-

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Closeup of some of the North Carolina nurserymen who participated in the summer tour. Left to right, Dan Reynolds, L. A. Reynolds, Inc., Winston-Salem, N. C.; Frank LeClair, head of the landscape department, University of North Carolina, Chapel Hill; Jack Gartner, ornamental horticulturist for the North Carolina extension service, Raleigh, N. C.; Howell Stroup, Cherryville Nursery, Cherryville, N. C., president of the North Carolina Nurserymen's Association, and Glenn Gilmore, Jr., North State Nursery, Julian, N. C.; vice-president of the North Carolina association.



Klaas de Wilde, of Perkins-de Wilde Nurseries, Shiloh, N. J., points out some interesting plants growing at his nursery. Looking on are, left to right, Sam Blair, Blair's Nurseries, Inc., Nutley, president of the New Jersey Association of Nurserymen; Prof. H. M. Biekart, research specialist in plant propagation, Rutgers University; Raymond P. Korbobo, Rutgers University, secretary of the New Jersey association, and August Kindsgrab, St. Cloud Nurseries, West Orange, association treasurer. The scene occurred during the association's summer outing.

Rain Fails to Dampen Spirits At New Jersey Summer Meeting

By Raymond P. Korbobo

On August 5, some 200 members and guests of the New Jersey Association of Nurserymen traveled to Shiloh, at the southern end of the Garden state, to attend another in a long line of successful summer meetings. At the executive committee meeting in May, when the date was set, the writer predicted rain for August 5. It did just that—for the fifth time in six such meetings. However, Klaas de Wilde, of Perkins-de Wilde Nurseries, the program chairman, was not the least bit concerned. The tables were set up at one end of their loading station, and the 200 well-fed nurserymen, their wives and their guests were lost under the huge roof. It could easily have housed from 1,500 to 2,000 persons. (Also, the rain was well-timed—it waited until all outside activities were completed.)

One member suggested that the Texas association might invite the New Jersey nurserymen down there for a meeting, as this would be a sure means of inducing it to rain for them. How about it, Texas?

The meeting was arranged so that leisure could be mixed with a pleasant dose of education. This seems to work well during New Jersey's hot summers. There were bus trips arranged so that any or all could

ride through the Perkins-de Wilde Nurseries, the Koster Nursery and Seabrook Farms (frozen foods operation). A complete display of the mechanized equipment used at the Perkins-de Wilde Nurseries was on hand, and, also, the members were able to amble through the propagating beds and houses and have a look.

Soil Improvement Pioneer

The firm at Shiloh is a fabulous story in itself because it was one of the first, if not the first, in the nation to cooperate with the technicians from the soil conservation service and the agricultural extension service at Rutgers University to see what could be done about saving and then improving the soil. It was washing away at an alarming rate. To tell the complete story would take too long for this report; so perhaps some day a feature story with pictures could be published in these pages so that other owners of nurseries might derive enough courage to do something about their own problems.

Therefore, let us make the story on the nursery brief in this article. Harry R. Slayback and Wallace A. Mitcheltree, both of the New Jersey agricultural extension service, in an

article for the Journal of Soil and Water Conservation, May, 1953, had this to say: "Suppose you bought a 100-acre farm and decided to raise nursery stock. Suppose that, in spite of all your efforts in the way of resting land, using cover crops and planting hedge row barriers, you found 20 years later that it took six years to raise nursery stock previously requiring only five. That, in addition, the topsoil was being moved into hedge rows by the wind. That rain water was washing tons of good topsoil into a low-lying area. That this topsoil had to be hauled back to fill the gullies in the spring. That a \$5,000 loss a year was being brought about by the soil's washing away from plant roots at the ends of the rows. And that the purchase of an additional 200 acres only added to these problems, in that some of this land had to be retired in a short time because it was too wet.

"The above brief description was the condition in which the late Roland de Wilde, Sr., and his son, Klaas, of Perkins-de Wilde Nurseries, Shiloh, N. J., found themselves in 1942. In desperation, after seeing some soil stabilization work that had been established on nearby farms, they appealed to the South Jersey Soil Conservation district for assistance."

Unbelievable Improvement

That was the beginning of the story of the saving of the Perkins-de Wilde Nurseries. Few of the members who viewed the entire setup during the bus trips could possibly believe that the firm was in such terrible condition just 11 years ago. What they saw was almost unbelievable, even to nurserymen. The property was so clean of weeds that members would ask the bus driver to stop whenever they saw a lone weed so that they might go out and pull it out. This, of course, was all in jest, but it certainly pointed up the fact that the firm was in a state of perfect maintenance.

They also saw beautifully contoured rows of plants. There are some straight rows in the nurseries, but not many of them. Some of the contours are so slight you can hardly notice them, while others are sharp. They saw grassed waterways that are used to take care of any runoff during excessively heavy rains. One of these is three fourths of a mile in length. It is 15 feet wide at the beginning and 50 feet wide at the outlet.

They were told that about 10 per cent of the nursery area is taken up in grassed waterways and contour

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Argel Pion, Fort Wayne, center, host nurseryman at the Indiana summer meeting, outlines a tour of his city's parks to Harold Bohling, Munster, left, vice-president of the Indiana Association of Nurserymen, and Tom Hobbs, Bridgeport, association president.

Demonstrations, Tours Feature Indiana Group's Summer Meet

By Robert C. Simpson

On August 5, Argel Pion, of the Pion Landscape Co., Fort Wayne, was host to approximately 100 visitors from all parts of Indiana. Every section of the state was represented as the nurserymen assembled for their annual 2-day summer meeting. Registration and an executive committee meeting occupied the morning.

At this time preliminary plans were made for the program of the winter meeting, to be held at Purdue University the third week of January, 1954.

Because of the many inquiries received by the Purdue horticulture department for sources of nursery materials, the need for a source list of plant materials normally available within the state was expressed by Prof. R. B. Hull.

The annual winter meeting for the first time will feature a special nursery exhibit intended for the visiting public rather than for the nurserymen themselves. The Purdue student horticultural club will assist the association in the preparation of this exhibit. It will occupy a special room on the main floor of the Pur-

due memorial union reserved for educational displays of many kinds. This exhibit will remain for a full week, will be educational in nature and will be built around the theme of "Plant Indiana—Help Plant America." Because of the intensive use of the Purdue memorial union for state and national conferences, as well as for student activities, this will be an unusual opportunity to reach the public.

The summer meeting was notable for the number of new and younger faces and the absence of many of the older nurserymen. The vitality and enthusiasm of these younger nurserymen were reflected in the planning for a successful, streamlined winter meeting.

Power Equipment

After lunch at nearby eating places, the afternoon session was given to displays and demonstrations by commercial exhibitors. These included such items as mist blowers, rotary mowers, the Scythe mower, chain saws and irrigation equipment. Power equipment for soil preparation attracted much

attention. An established sod was quickly worked into planting condition by use of the Howard Rotavator rotary tractor tiller followed by a York rake. The Gem 15-horsepower model was also shown to be highly effective in working up smaller areas of the same sod and for row cultivation. Another item that attracted considerable attention was the Gravely 36-inch rotary power mower. This mower is one of the few with adequate power for cutting heavy growth. The sickle bar attachment for this tractor appears as powerful and ruggedly constructed as that of standard field mowers.

Mrs. Argel Pion was hostess to the ladies in her lovely new home. Her daughter, Dorothy, entertained the children with an afternoon trip to the bird sanctuary at Fronky park.

The evening banquet was held in the air-conditioned dining room of the Hotel Van Orman. Later, Howard Van Gunten, superintendent of the Fort Wayne city parks, described the extensive park system of Fort Wayne and outlined the tour scheduled for the following morning.

Henry Schnitzius, one of two official delegates to the American Association of Nurserymen convention, gave a lively report of the high points of the meeting. Dr. N. K. Ellis, head of the horticulture department at Purdue, gave an appraisal of the present nursery-teaching program at Purdue.

Insects to Watch

Paul Ulman, assistant state entomologist, summarized the insect problems of the year. He will be glad when winter comes, he said, as this has been one of the most unusual seasons on record. The summer has been ideal for every kind of insect. Aphis and bagworms have been a problem even in nurseries. If there should be a mild winter, he predicted, there will be a big increase next year.

He called attention to the outstanding research being done on ornamentals by Don Schuder, of the Purdue department of entomology. Malathion was recommended for late season infestations of bagworms. This material is closely related to Parathion, nearly as effective, and about as safe to use as DDT. Four pounds of the 25 per cent wettable powder to 100 gallons of water is effective at this time of year when lead arsenate has given zero kill. There has been a scale build-up over the entire state, especially in the

[Continued on page 63]

Pennsylvanians Enjoy Picnic at State College

By R. P. Meabl

More than 150 attended the summer meeting of the Pennsylvania Nurserymen's Association, held at State College, August 13, with the department of horticulture of Pennsylvania State College playing host. The meeting was an all-day informal picnic, with everyone free to visit the points of interest on the campus.

During the morning, soil preparing tools were demonstrated, while in the afternoon, bus tours of the campus and the 3,000 acres of farm land under experimentation were taken. Of special interest were the fine turf plots and the flower and rose test gardens. At the grass plots various mixtures were noted for best use for lawns, golf courses and recreation fields, and the effects of various fertilizing and watering programs were studied.

The flower test garden has more than 900 samples of annual flowers in bloom, where they are checked for trueness to type and color, uni-



Soil tilling equipment draws an interested group at the Pennsylvania summer meeting.

formity, quality of flowers and general garden value. The rose gardens contain over 250 varieties of hybrid tea and 35 varieties of floribunda roses. All the past winners of the All-America rose award are featured, as well as those still in competition.

Business Meeting

At the short business meeting, with President Lewis Barr, Lancaster, presiding, reports were heard from Ray Hively, York, and Walter Stein, Wrightsville, concerning the recent A. A. N. meeting. Mr. Hively gave a short resume of the business while Mr. Stein covered the social activities.

Vice-president Al Vick, Narberth, reported for the committee studying

the possible merger of the Pennsylvania Nurserymen's Association and the Western Pennsylvania Nurserymen's Association. He said before a merger could be made, it would be necessary for the bylaws to be changed. The necessary changes will be circulated to the membership before the annual meeting so that action can be taken at that time.

The effect of the new sales tax on sales of nursery stock was discussed. There is some question whether it will apply. Since it was felt the intent of the law was to exempt all agricultural products, it was decided to refer the matter to the secretary of revenue for clarification.

The evening dinner was held in the American Legion Home, at Bellefonte, with Miles Horst, Pennsylvania secretary of agriculture; Dr. Russell E. Larson, head of the department of horticulture, and Dr. Herbert R. Albrecht, director of agricultural extension, as guests. Dr. William M. Smith, professor of family relations, was the main speaker. He spoke on "Take a Walk Around Yourself." His talk was timely and showed the importance of proper attitudes and behavior in all human relationships, whether they are between members of a family, friends, business associates or employees.

The highlight of the evening was the presentation of the new award, made possible by the gift of J. Hansell French, former secretary of agriculture, for the "Nurseryman of the Year." The first award was made to Albert F. Meehan, Dresher, in recognition of his outstanding service to the association for over 25 years as secretary and treasurer.



This is the way to hold a meeting! A glimpse of the business session at the Pennsylvania summer meeting, held in a natural setting under the trees.

Pointers on Propagation

Propagating Ilex Opaca

By James S. Wells

During the past seven years I have watched with considerable interest the steady rise of *Ilex opaca* from a position of comparative obscurity to one of immediate practical importance to every nurseryman. Our salesman recently told me that it was his considered opinion that we should set out substantial plantings of all types of *ilex*, but particularly clonal forms of the American holly, *Ilex opaca*.

There is no doubt whatsoever that the whole of the holly family is becoming of immediate importance to the nursery industry, because many varieties fit so well into the planting of the modern, low, ranch-type home. They are hardy, generally evergreen and highly decorative; therefore, the wise grower will, in my opinion, maintain a steady production in all types. With this in mind, we will consider propagation of various types of holly in some detail.

The propagation of *I. opaca* was covered in these columns October 15, 1951, but since that time our methods have been refined somewhat, so that it should be of value to reconsider the subject in detail.

To raise nursery plants of *I. opaca*,

it is no longer satisfactory to pick a few berrying plants from the local woods and propagate from them. This procedure is only permissible if the plant is unusually outstanding, but in order for its value to be judged correctly stock plants of recognized varieties should be compared. A considerable amount of careful selection and breeding has been done in recent years, and excellent clonal selections are now available. The horticultural value of the woodland seedlings can vary tremendously, but most of the selected forms have dark green leaves, some with a glossy sheen, and produce heavy crops of well-colored berries. There are some excellent selections growing on the grounds of the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., while some equally good varieties are at the Arthur Hoyt Scott Horticultural Foundation, Swarthmore, Pa. Whatever the source of propagating material, one should make certain that the plants themselves are outstanding in the important points of habit of growth, size and color of leaves, size, color and quantity of berries and hardiness.

All these points should be care-

AMERICAN NURSERYMAN

fully checked before a plant is selected for propagation.

On the assumption that the propagating material is good, let us consider the most important steps pointing toward a good stand of young plants.

Grafting Versus Cuttings

Until comparatively recently, propagation of *I. opaca* was carried out by grafting onto prepared 2-year-old seedling understocks of the same variety. The seedlings themselves, while coming thickly in the second year from seeds, are useless for normal nursery trade because some holly plants are male and others female. The female or berry-bearing plants are the only ones that are required in quantity, but it might take four or five years before a seedling would flower so that its sex could be determined, and even then it might well be an undesirable form. Vegetative propagation of selected forms was essential, and grafting was the method used. However, this is no longer necessary, because we now know how to propagate *I. opaca* successfully from cuttings.

As is often the case in propagating techniques, timing is one of the most important single factors with which we have to deal, and it is for this reason that this article appears now, because about September 1 seems to be the best time. It is not possible to be accurate about this because the time in different localities varies, but here in south New Jersey the last week in August and the first week in September are usually the best times. However, timing varies from season to season, and in looking through a neighbor's greenhouses two weeks ago I noticed substantial batches of *I. opaca* cuttings which had just been inserted and appeared to be in excellent condition. But we have not made any yet and probably will not do so until the end of August and the beginning of September. I know from personal experience how a first-class batch of cuttings can suddenly turn black a few days after being inserted in the bench if the timing is off by a week.

It may be that you have already tried some *I. opaca* cuttings and they have turned black in this way. If so, I would earnestly advise you to try again, because cuttings taken from the same trees and apparently identical in every way, but just two weeks later, can succeed just as thoroughly as the first batch failed.

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Well-rooted cuttings of *Ilex opaca*, showing the type of cutting taken and the root system produced by treatment with 1 per cent 2,4,5-TP. Note lumps of peat still attached to the roots.



The Attractive Facade of Red Hill Nursery Achieves Variety by Skillful Use of Stucco, Glass and Wood Panels.

Garden Shop is Architectural News

Though designed by a landscape man rather than a building architect, the Red Hill Nursery, San Anselmo, Calif., is architectural news. It rises on piers over a creek, thus achieving greater spaciousness than it otherwise would have, and appears to float over the water. A huge willow tree growing on the bank of the creek protrudes through the salesyard's flying deck at one side of the construction, shading a portion of the nursery's open display area and enforcing the designer's intention to unify the building and grounds under a roof theme. Benches under the trees overlook the creek and provide a cool, pleasant spot for customers to rest.

Wholesale nurserymen Harold B. Watkin and E. Kent Sibbald, who have been in business in the area since 1947, are owners of the new enterprise. They originally purchased the creekside site to use as a plant material or storage yard, and it might have remained so were it not for Jack Alvarado, who had been hired by the firm to buy and grow plant material for its increasing landscape construction jobs. His enthusiasm for the project gave the impetus to launch the retail nursery. The three men called in Lawrence Halprin, prominent bay area landscape architect, who designed the master plan for the new park at Sacramento and the Davis and Santa Barbara campuses of the University of California, and with whom the firm had cooperated on landscape construction jobs. The four men talked together of the way a nursery should be run. All had ideas, and one was that a landscape architect would better understand problems of nursery layout than a build-

ing architect. Lawrence Halprin was thereupon chosen to work out a plan for the new nursery. After many conferences, Mr. Halprin and his associates designed the unusual indoor-outdoor building with the aid of architectural and engineering consultants.

The main aim was to design the building so that a person passing from the building to the outside area would not realize where the building ended and the garden (or sales area) took over, but would feel that the two parts flowed spontaneously into one another without an abrupt division. The effect was achieved—as one passes from the building housing the offices and showrooms to the area shaded by

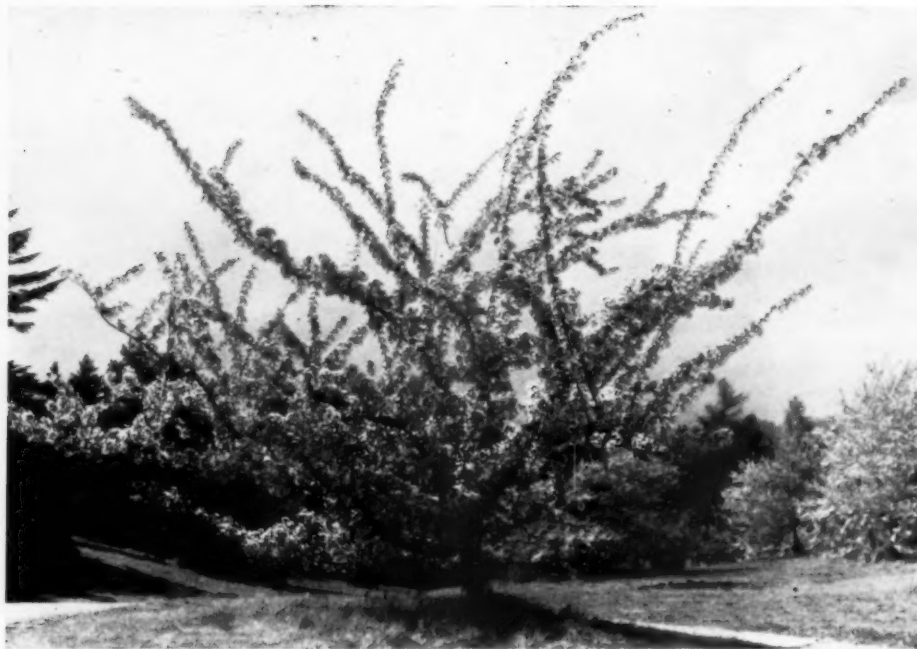
lath and on into the openess of the garden, one is unaware of a break in continuity.

The roof theme was a major means of achieving the desired results. A solid roof covers the main building. Extending out from it is a lath construction which serves as partial roofing and creates interesting horizontal patterns of sunlight and shadow, thus being not only of practical use to shade plants but also artistically pleasing in effect as well as in concept. Beyond the lath roof, the leaves of the huge willow tree form a great natural roof and provide dappled shade for flats of young plants.

The generous use of glass, too, [Continued on page 77]



The nursery, built on a creekside site, stands on piers and overhangs the water. A large willow tree growing on the creek's bank protrudes through the flying deck and provides natural shading for plants at one side of the open sales area.



Malus Hupehensis

Flowering Trees

By Fred J. Nisbet

(Second of two parts)

In a previous article it was suggested that small or medium-size trees should be selected for planting around low-outline modern houses and on small lots. In this way the scale of the landscape picture would be preserved. There are many trees suitable for this use which are usually considered as specimens because of their ornamental flowers and, sometimes, their fruits. Many of these plants deserve a wider use, for they may be used in framing a house or as part of a background planting perhaps even better than many of the common "shade" trees.

It is general practice in selecting plants with conspicuous flowers to give most of the attention to the size, color and season of the bloom. Because of this tendency, many gardens are set with plants which are gaunt, coarse, just plain uninspiring or even ugly for 11 months and some days of the year—all this for the sake of the flowers, which may last but a few days. Examples are common, but mention of *Catalpa speciosa*, among the trees, and *forsythia* species, in the shrubs, is probably sufficient. There is, of course, no need for this. We have a wealth of plants which are attrac-

tive, in one respect or another, over much of the year. They deserve, and are beginning to receive, just recognition. The following list has been selected with this in mind, although not all of the plants conform entirely.

The serviceberries, *amelanchier* species, might well be used more than they are. They all benefit from some early pruning to develop a single straight stem. They are adaptable as to soils and are all hardy enough to grow in zone 4. The white flowers are borne in racemes and are particularly striking if they have an evergreen background. *A. canadensis*, the shadblow of New England, will reach 25 feet in cultivation and has foliage that is silvery when young. The flowers of *A. grandiflora* are larger, and the buds are tinged pink. The Alleghany serviceberry, *A. laevis*, tends to be shrubby and somewhat lower than the shadblow. The young leaves are purplish. In all cases the fruits are edible, and the autumn color is yellow to orange or red.

Redbud Has Disadvantages

The redbud, *Cercis canadensis*, is apt to be troubled with diseases and, therefore, to be rather short-lived.

Still, its early pealike flowers—some even springing from the tree trunk itself—and the large, heart-shaped leaves have considerable interest. Early pruning is necessary to develop a single leader. Twenty feet, more or less, is the usual ultimate height. There are those who do not like the rose-pink color of the flowers. For them, there is the white-flowered form, *C. c. alba*. This plant is definitely tenderer when young; so only larger plants should be grown in exposed positions.

The American yellow wood, *Cladrastis lutea*, seems to be little known. This is unfortunate, for it is a pleasing plant. Not the least of its good qualities is its characteristic of bearing fragrant, white, wistarialike blooms in June. It is adaptable as to soils and exposure and may be expected to reach about 35 feet in height, occasionally slightly more. The bark is smooth and a pleasing gray. The compound foliage usually turns a soft and lovely yellow in the fall, although sometimes orange is the predominant color.

Little need be said about the flowering dogwoods, *Cornus florida* and *C. f. rubra*, as they are well-known and generally beloved. Most of the varieties are not of particular

merit. *C. f. pendula*, the weeping flowering dogwood, does have a limited place, but *C. f. welchi*, with leaves of white and green overlaid with a muddy pink flush, is a spindly monstrosity, suited only to plant collections.

The Japanese dogwood, *Cornus kousa*, is another worth-while but neglected plant. The habit here is definitely vase-shaped until maturity, when it changes to become more nearly horizontal. The flowers open as those of the native species fade and often make the longer show. The multiple fruits are larger than the berries of *C. florida*. The fall color of the smaller, more refined leaves is not so striking as those of the native sorts. As with the redbud, young plants lack the hardiness they exhibit later, so 6 to 8-foot plants should be the minimum for transplanting to exposed or cold positions. While exceptionally large flowering dogwoods may pass the usual height of 20 feet, the Asian counterpart must have good growth to reach that height.

Hawthorns Widely Grown

The hawthorns have long been widely grown, even though most of them are a host to many troubles and some of them are second-rate or worse. For general planting, perhaps only one may safely be recommended. This is the Washington thorn, *Crataegus phaenopyrum* (*C. cordata*). There is no season of the year when this upright, dense-headed tree is not attractive. Its small white flowers are carried in

many-flowered clusters in June and are followed by brilliant red fruits, which persist for many months. Its glossy leaves turn brilliant red in the fall in a display that holds longer than that of most plants. As these trees reach maturity, at about 20 to 25 feet, their general outline changes to a rather rounded form, which is always dense and twiggy. There is a columnar variety, *C. p. fastigiata*, which I have not seen, that is highly recommended.

After years of intermittent publicity the Franklin tree, *Franklinia alatamaha*, is beginning to catch on slowly with the gardening public. I believe that acceptance of it will increase during the next 10 years. In September its large white flowers with golden stamens are most attractive. This show is quickly followed by fiery orange to red autumn foliage, which develops completely only in full sun. Where lack of hardiness is a problem, it is usual to let several stems develop, so that the plant becomes shrubby. Otherwise, it makes a 20 or 25-foot loose pyramid.

The Carolina silverbell, *Halesia carolina*, is not a first-rate plant. Its main claim to distinction lies in its attractive, drooping, bell-like flowers which appear in May. At other seasons, the foliage is nondescript and the branching somewhat ungainly. This species grows about 25 feet high in the wild, but seldom this tall in cultivation. Best used in semiwild areas, this rather broad tree may have a limited place in the back of a shrub border.

My enthusiasm for the golden-

rain tree, *Koelreuteria paniculata*, is moderate at best, but this green-barked tree does have some good characteristics. Chief among its good points is the habit of bearing erect panicles of yellow flowers in July and August when blooms are not plentiful. These are followed by papery fruits, which change from yellowish to brown. If given room in which to develop, this tree forms a dense head—perhaps best described as umbrella-shaped—usually about 15 to 20 feet high. When crowded, however, it becomes leggy and unattractive. Although clay soils are not generally recommended, the golden-rain tree seems most adaptable. In some locations the bright green, compound leaves turn yellow in the fall.

The Laburnums

The laburnums, too, have yellow flowers, but they are pealike and hang in pendulous clusters in May or June. The best is the waterer laburnum, *L. watereri* (*L. vossii*, in many catalogs). It is erect in habit, dense in growth and varies from 15 to 25 feet in height. The flowers are larger and of a deeper yellow than those of the Scotch laburnum, *L. alpinum*. The latter is somewhat more open in growth and is considerably hardier. Both species seem quite adaptable as to soils and are easy to transplant. It is generally considered safest, however, to move them only in the spring and then with a ball.

The magnolias pose a big prob-
[Continued on page 65]



Magnolia Kobus



Amelanchier Canadensis



THE ECONOMIST REPLIES TO CHARLIE CHESTNUT



Dear Charlie:

I do not possess either 2-wheeled or 4-wheeled means of transportation. If buses are running at the hour when I go to or leave work I subject myself to the cantankerous drivers and the undependable, jerky, foul-smelling heaps of metal which come by. If only a post could be provided for hitching a horse or mule of the dependable, nursery-cultivating kind, I would long since have sought your aid in finding one, Charlie. Nostalgic memories make pleasant the noises and smells when following Dobbin as compared with those emanating from these buses.

A feeling of responsibility to nurserymen has caused many days to extend from 7 in the morning until 11 at night. Activities of the working hours forbid such delights as reading trade papers. That is done while waiting for the right bus and watching the wrong ones go by. It was under these circumstances that I recently made an important discovery, Charlie—your message to President John in the convention issue of the *American Nurseryman*. It is absolute proof that at least one nurseryman in the United States has looked over the figures pertaining to his industry.

This must be my introduction to you, Charlie, until such time as we may have a chance to sit down, whittle and chat. I am describing your national capital, seat of the much lamented bureaucracy. Into this maze I was thrust, on loan to your Uncle Sam for the specific purpose of assisting him in doing some special research for florists and nurserymen. By now you must have guessed it, Charlie. In the final analysis I must admit a good part of the guilt for the figures which you so kindly brought to the attention of President John.

Unless my trials with bureaucracy have completely fogged my memory, I believe that your column has been a feature in the *American Nursery-*

This is a reply by M. Truman Fossum, bureau of agricultural economics, United States Department of Agriculture, to the article, "To the Vice Pres. of the Convention," by Charlie Chestnut, which appeared in the July 15, 1953, issue of the *American Nurseryman*.

man ever since I was first exposed to this industry in 1931. At least it has been a column of interest to me for most of the time since those days of bigger and better bonfires of nursery stock. Of course, where I grew up on the prairie we would have given most anything to have had a few trees and shrubs within our view. But somehow your folks and my folks did not get together. The respective smoke signals must have been mixed up. At any rate the prairie became even more barren and nurserymen destroyed even more stock before it was realized that the lines of communication had broken down—failed. Nurserymen had some things which people wanted and people wanted some things which nurserymen could provide. Unfortunately neither side knew the other's interest or distress-wants, if you please.

As a whole, nurserymen had become pretty much like the bus company mentioned above. They had been making people take what they had and evidently thought people were liking it. Eventually there was resistance on the part of some consumers. The coincidence of this fact with the general inability to buy placed at least two strikes against nurserymen. Later, with a more general acceptance of producing what people wanted, the nursery industry rode through those lean years in better fashion than did many industries.

Through all those years and since, I have been obsessed with the fact that there is much more to the nursery business than plant exploration, developing new varieties, propagation, crop production, insect and disease control, plant materials and their uses. In good times, and even more so in bad times, it seemed important for nurserymen to know what, where, when, how, why and at what price nursery stock (and service) was available for sale and was desired by the people of America.

Now, Charlie, I would like to expand this subject a bit by writing to you about (1) your "snow-bound" reading matter, (2) wants and (3) communications.

Gazing globes, seances or witchcraft did not seem to be the answer to my obsession. Nor could an individual be found who was capable of observing all domestic nursery operations and imports in any given year. Even the best informed and most widely traveled "bush peddlers" operated on the basis of hunches rather than facts. It was also disappointing to discover that, in spite of meticulous attention to the details of cultural practices and related matters, European nurserymen also operated without knowledge of industry-wide inventories, sales, consumer potential and other business factors.

One way of taking some of the guesswork and unnecessary risk out of the nursery business was to accumulate experiences or information from the various establishments and from consumers. This could best be done at some central location. In addition, it was considered desirable to have such research done under the direction of some generally accepted and unbiased organization. If nurserymen were really going to plant America, they had to know more about the stock, the labor, the equipment and the finances with which the task was to be accomplished.

In 1945 some of your fellow nurserymen in New York saw fit to support and cooperate with a program of statistical and economic research at Cornell University. Almost immediately there were benefits for nurserymen in that state which aroused the interest of the industry on a national level. Since then all plans and progress are the result of a close working relationship with officers and committees of the American Association of Nurserymen.

One of the basic needs for development of such research for nurserymen was figures describing the various kinds of operation. It was decided that this would best be done as a part of existing statistical services of the federal government. The outcome of this decision was the granting of a special census to the nursery industry.

If the research was to be directed

[Continued on page 70]

LaBars for Rhododendrons

As the largest producers over many years, "LaBars" is synonymous with "rhododendron."

LaBars for finest-quality surplus evergreens and large shrubs is a surprise to many, but read on—or better still, come and look them over.

The evergreens are clean, heavy specimens, grown in spaced areas. The shrubs are vigorous, bushy, young wooded plants.

Abies concolor (White Fir)	
15 18 to 24 ins.	\$ 2.50
40 2 to 3 ft.	3.50
55 3 to 4 ft.	5.50
40 4 to 5 ft.	7.00
Pseudotsuga douglasii (Douglas Fir)	
100 18 to 24 ins.	2.00
100 2 to 3 ft.	3.00
50 3 to 4 ft.	4.50
50 4 to 5 ft.	6.00
Abies fraseri (Fraser Fir)	
140 18 to 24 ins.	1.50
100 2 to 3 ft.	2.50
25 3 to 4 ft.	3.50
Juniperus chinensis pfitzeriana compacta (Compact Pfitzer Juniper)	
30 2 to 3 ft.	3.50
Taxus cuspidata capitata (Upright Japanese Yew)	
150 18 to 24 ins.	3.00
300 2 to 3 ft.	4.00
300 2½ to 3 ft.	4.50
Upright Yews, No. 2 grade	
150 18 to 24 ins.	1.35
200 2 to 3 ft.	2.30
100 3 to 4 ft.	3.20
Taxus cuspidata columnaris (Narrow Columnar Yew)	
50 4 to 5 ft.	6.00
33 5 to 6 ft.	8.00
Taxus media hicksii (Hicks Yew)	
185 3 to 3½ ft.	7.00
175 3½ to 4 ft.	8.00
70 4 to 4½ ft.	9.00
35 4½ to 5 ft.	10.00
Taxus cuspidata (Spreading Yew)	
70 4 to 5 ft.	15.00
60 5 to 6 ft.	18.00
30 6 to 7 ft.	20.00
Picea excelsa (Norway Spruce)	
40 2 to 3 ft.	2.50
75 3 to 4 ft.	3.50
15 4 to 5 ft.	4.50
30 5 to 6 ft.	7.00
50 6 to 8 ft.	9.00
40 8 to 10 ft.	12.00
20 10 to 12 ft.	18.00
Thuja occidentalis nigra (Dark American Arborvitae)	
10 2 to 3 ft.	2.00
340 3 to 4 ft.	3.00
175 4 to 5 ft.	4.00
60 5 to 6 ft.	5.00
Juniperus virginialis glauca (Blue Cedar)	
110 2 to 3 ft.	2.25
50 3 to 4 ft.	3.75
10 4 to 5 ft.	4.75
20 5 to 6 ft.	6.00
Juniperus chinensis columnaris glauca (Blue Columnar Juniper)	
5 4 to 5 ft.	\$ 5.50
20 5 to 6 ft.	7.00
80 6 to 8 ft.	9.00
10 8 to 10 ft.	15.00
Pinus resinosa (Red Pine)	
25 4 to 5 ft.	5.50
35 5 to 6 ft.	7.00
20 6 to 8 ft.	12.00
15 8 to 10 ft.	15.00
10 10 to 12 ft.	18.00
Pinus sylvestris (Scotch Pine)	
40 4 to 5 ft.	5.50
35 5 to 6 ft.	7.00
35 6 to 8 ft.	12.00
Juniperus excelsa stricta (Greek Juniper)	
50 2 to 3 ft.	3.00
Chamaecyparis plumosa aurea (Goldenplume Cypress)	
15 3 to 4½ ft.	4.00
20 4½ to 5½ ft.	5.00
Euonymus fortunei vegetus (Evergreen Bittersweet)	
300 12 to 15 ins., B&B.	1.25
Colorado Green Spruce	
20 3 to 4 ft.	4.50
35 4 to 5 ft.	5.00
40 5 to 6 ft.	6.50
40 6 to 7 ft.	12.00
5 7 to 8 ft.	15.00
Red-leaved Japanese Barberry	
60 2½ to 3½ ft., B&B.	1.15
SHRUBS: Weigela rosea, Kolkwitzia amabilis, Ligustrum ibota, Forsythia spectabilis, Syringa vulgaris, Syringa Henry Lutece, Philadelphus virginialis, Hydrangea paniculata, Lonicera tatarica.	
4 to 5 ft., B&B.	\$2.50
5 to 6 ft., B&B.	3.00

All the above material is for sale this fall, but will hold for spring for 25% advance payment.

The road stand operator who wants to offer handy, good values in natives will find our nursery-grown seedlings of interest. Available at the moment are:

35,000 *Rhododendron maximum*, 4 to 18 ins.
15,000 *Rhododendron catawbiense*, 4 to 18 ins.
10,000 *Kalmia latifolia*, 4 to 18 ins.
1500 *Rhododendron carolinianum*, 4 to 18 ins.
1500 *Rhododendron carolinianum album*, 4 to 18 ins.

All of these are offered in single-stem, branched and extra heavy branched. Not to be confused with collected stock. These are something worth the money for discriminating buyers.

White Azalea vaseyi

Something new and desirable—only LaBars' have it. Our production is now up to the point where we can offer limited quantities of 12 ins. to 3 ft., but only in conjunction with other purchases.

LA BARS' RHODODENDRON NURSERY

STROUDSBURG, PA.

Phone: Stroudsburg 644

FOREST NURSERY CO., Inc.

McMINNVILLE, TENNESSEE

John T. Boyd, Vice-president

J. R. Boyd, President

H. B. Stubblefield, Supt.

We are pleased to offer a few items which will be in our early fall wholesale price list, now being printed. Our complete fall list will be mailed late in September or early October, offering most items we will have for fall, 1953, and spring, 1954, delivery. This will include hardy flowering shrubs, shade and flowering trees, assorted vines and creepers, fruit and nut trees, assorted broad-leaved and coniferous evergreens and miscellaneous items.

We specialize in Amur River North, Amur River South, Ibolium, Ibota and California Privet, one and two-year. Be sure to get our quotations before placing your order.

Please send us your want list on any items wanted that are not offered in our list. We will be glad to quote as attractive prices as possible on any stock we have available.

If you are not receiving our regular list of bulletins, we will be glad to add your name to our mailing list on request.

We invite you to visit our nursery at any time and look over our stock, consisting of approximately 500 acres of first-class nursery stock.

HARDY DECIDUOUS FLOWERING SHRUBS

ALMOND, PRUNUS GLANDULOSA

(Double, pink-flowering Almond), own-root

	Per 10	Per 100	Per 1000
12 to 18 ins., T., well-br.	\$3.00	\$25.00	\$200.00
18 to 24 ins., T., well-br.	3.50	27.50	250.00
2 to 3 ft., T., well-br.	4.50	40.00	....
3 to 4 ft., T., well-br.	5.50	47.50	....

BERBERIS THUNBERGI

(Green-leaved Barberry)

12 to 15 ins., 2-yr., S.	1.00	6.00	55.00
15 to 18 ins., 2-yr., S.	1.25	7.00	65.00
12 to 15 ins., T., br.	2.00	15.00	....
15 to 18 ins., T., br.	2.50	20.00	....
18 to 24 ins., T., br.	3.00	25.00	....

CALYCANTHUS FLORIDUS (Sweet Shrub)

12 to 18 ins., 2-yr., br., S.	2.00	15.00	125.00
18 to 24 ins., 2-yr., br., S.	3.00	22.50	200.00
2 to 3 ft., 2-yr., br., S.	3.50	25.00	225.00
12 to 18 ins., T.	2.50	20.00	175.00
18 to 24 ins., T.	3.00	25.00	225.00
2 to 3 ft., T.	3.50	30.00	....

CORNUS STOLONIFERA

(Red Osier Dogwood)

18 to 24 ins., 2-yr., T.	2.00	15.00	....
2 to 3 ft., 2-yr., T.	2.50	20.00	....
3 to 4 ft., 2-yr., T.	3.00	25.00	....

CYDONIA JAPONICA (Japanese Quince)

12 to 18 ins., S.	....	3.00	25.00
18 to 24 ins., S.	....	.75	4.50
2 to 3 ft., S.	....	1.00	6.50

CYDONIA JAPONICA RUBRA

(Japanese Quince),

true upright red, nonfruiting.

12 to 18 ins., 2-yr., well-br.	3.00	25.00	225.00
18 to 24 ins., 2-yr., well-br.	4.50	40.00	350.00
2 to 3 ft., 3-yr., well-br.	5.50	50.00	450.00
3 to 4 ft., 3-yr., well-br.	6.50	60.00	....

CYTISUS SCOPARIUS (Scotch Broom)

2 to 3 ft., S.	2.00	15.00	125.00
3 to 4 ft., S.	2.50	20.00	175.00
18 to 24 ins., S., br., heavy.	2.00	15.00	125.00
2 to 3 ft., S., br., heavy.	2.50	20.00	175.00
3 to 4 ft., S., br., heavy.	3.00	25.00	200.00

DEUTZIA SCABRA

Varieties:

CANDIDA, double, white

CRENATA, double, pink

PRIDE OF ROCHESTER, double, white

18 to 24 ins., well-br.	2.00	12.50	....
2 to 3 ft., well-br.	2.50	15.00	....
3 to 4 ft., well-br.	3.00	20.00	....

FORSYTHIA FORTUNEI (Fortune Forsythia).

FORSYTHIA INTERMEDIA (Border Forsythia)

12 to 18 ins., 2-yr., well-br.	1.25	6.00	....
18 to 24 ins., 2-yr., well-br.	1.50	10.00	....
2 to 3 ft., 2-yr., well-br.	2.00	15.00	....
3 to 4 ft., 2-yr., well-br.	2.50	20.00	....

FORSYTHIA SPECTABILIS

(Showy Border Forsythia).

	Per 10	Per 100	Per 1000
12 to 18 ins., 2-yr., well-br.	\$1.25	\$10.00	....
18 to 24 ins., 2-yr., well-br.	2.00	15.00	....
2 to 3 ft., 2-yr., well-br.	2.50	20.00	....

HYDRANGEA PANICULATA GRANDIFLORA

(Peegee Hydrangea)

12 to 18 ins., 2-yr., well-br.	2.00	15.00	\$125.00
18 to 24 ins., 2-yr., well-br.	3.00	25.00	200.00
2 to 3 ft., 2-yr., well-br.	4.00	35.00	300.00

LONICERA MORROWI (Morrow's Honeysuckle).

LONICERA TATARICA

(Tatarian Honeysuckle).

12 to 18 ins., hedging.	1.00	8.00	70.00
18 to 24 ins., hedging.	1.10	10.00	90.00
12 to 18 ins., 2-yr., T., well-br.	1.50	12.50	100.00
18 to 24 ins., 2-yr., T., well-br.	2.50	17.50	150.00
2 to 3 ft., 2-yr., T., well-br.	4.00	30.00	250.00

MAGNOLIA LILIFLORA NIGRA

MAGNOLIA SOULANGEANA

	Each	Per 10
18 to 24 ins., B&B.	\$2.00	\$17.50
2 to 3 ft., B&B.	2.50	22.50
3 to 4 ft., B&B.	3.50	32.50

PHILADELPHUS CORONARIUS (Sweet Mock Orange)

	Per 10	Per 100	Per 1000
12 to 18 ins., 2-yr., br.	\$1.50	\$10.00	\$ 90.00
18 to 24 ins., 2-yr., br.	2.00	15.00	125.00
2 to 3 ft., 4 br.	2.50	20.00	150.00

ROSA MULTIFLORA JAPONICA

8 to 12 ins., S., 1 to 2 mm.	....	1.25	10.00
12 to 18 ins., S., 2 to 3 mm.	....	1.75	15.00
18 to 24 ins., S., 3 to 4 mm.	....	2.00	17.50

SPIRAEA ANTHONY WATERER

12 to 15 ins., 3-yr.	4.00	30.00	....
15 to 18 ins., 3-yr.	5.00	40.00	....
18 to 24 ins., 3-yr.	6.00	50.00	....

SPIRAEA PRUNIFOLIA (Bridal Wreath)

2 to 3 ft., 2-yr., well-br.	4.00	30.00	....
3 to 4 ft., 2-yr., well-br., heavy clumps.	6.00	50.00	....
4 to 5 ft., 2-yr., well-br., heavy clumps.	7.00	60.00	....

SYRINGA VULGARIS (Common Purple Lilac),

own-root

2 to 3 ft., 2-yr., mostly whips.	3.50	30.00	250.00
3 to 4 ft., 2-yr., mostly whips.	5.00	45.00	350.00
12 to 18 ins., 3-yr., well-br.	2.50	20.00	....
18 to 24 ins., 3-yr., well-br.	3.00	25.00	....
2 to 3 ft., 3-yr., well-br.	4.00	35.00	....

VIBURNUM TOMENTOSUM (Double-file Viburnum)

12 to 18 ins., 2-yr., well-br.	6.00	50.00	....
18 to 24 ins., 2-yr., well-br.	7.00	60.00	....
2 to 3 ft., 2-yr., well-br.	9.00	75.00	....

WEIGELA AMABILIS, light pink

18 to 24 ins., 2-yr., br.	2.50	20.00	....
2 to 3 ft., 2-yr., br.	3.50	25.00	....
3 to 4 ft., 2-yr., br.	4.00	35.00	....

WHOLESALE PRICE LIST—FOREST NURSERY CO.

FOREST and SHADE TREES

ACER DASYCARPUM (Silver Maple)			
	Per 10	Per 100	Per 1000
5 to 6 ft., T., well-br., tops.	\$ 7.50	\$ 60.00	.....
6 to 8 ft., T., well-br., tops.	10.00	80.00	.....
8 to 10 ft., T., well-br., tops.	15.00	125.00	1100.00
1 1/2 to 1 3/4-in. caliper.	17.50	150.00	.....
1 3/4 to 2 -in. caliper.	20.00	175.00	.....
2 to 2 1/2-in. caliper.	22.50	200.00	.....
CERCIS CANADENSIS (American Redbud)			
3 to 4 ft., T., br.	5.00	40.00	.....
4 to 5 ft., T., br.	6.50	55.00	.....
5 to 6 ft., T., br.	9.00	80.00	.....
6 to 8 ft., T., br.	12.50	100.00	.....
CORNUS FLORIDA (White Dogwood)			
2 to 3 ft., 2-yr., well-br.	6.00	50.00	.....
3 to 4 ft., 2-yr., well-br.	15.00	125.00	.....
4 to 5 ft., 2-yr., well-br.	20.00	175.00	.....
(Add 50c per plant for B&B)			
LIQUIDAMBAR STYRACIFLUA (American Sweet Gum)			
4 to 5 ft., T., well-br.	10.00	80.00	.....
5 to 6 ft., T., well-br.	12.50	100.00	.....
6 to 8 ft., T., well-br.	15.00	125.00	.....
8 to 10 ft., T., well-br.	25.00	200.00	.....
(Add \$1.00 per tree for B&B)			
LIRIODENDRON TULIPIFERA (Tulip Tree)			
4 to 5 ft., T.	7.50	60.00	.....
5 to 6 ft., T.	10.00	75.00	.....
6 to 8 ft., T.	12.50	100.00	.....
MALUS (Flowering Crab)			
ELEYI, bright red			
FLORIBUNDA, pink			
HOPA, red			
NORMANDI, pink with large red fruit			
3 to 4 ft., 7/16-in. caliper, 2-yr., grafts, br.	6.50	60.00	.....
4 to 5 ft., 9/16-in. caliper, 2-yr., grafts, br.	8.00	75.00	.....
5 to 6 ft., 11/16-in. caliper, 2-yr., grafts, br.	10.00	90.00	.....
PRUNUS PERSICA (Flowering Peach)			
Double Red			
Double White			
Double Pink			
Peppermint Stock			
7/16 to 9/16-in., 3 to 4 ft., dormant bud	4.00	35.00	.....
9/16 to 11/16-in., 4 to 5 ft., dormant bud	4.50	40.00	.....
11/16-in. and up, 5 to 6 ft., dormant bud	5.00	45.00	.....
PRUNUS (Red-leaved Peach)			
(Combination fruiting and flowering peach)			
7/16-in. dormant bud	4.00	35.00	.....
9/16-in. dormant bud	4.50	40.00	.....
11/16-in. dormant bud	5.00	45.00	.....

BROAD-LEAVED EVERGREENS

ABELIA GRANDIFLORA (Glossy Abelia)			
	Per 10	Per 100	
18 to 24 ins., br.	\$ 7.50	\$ 60.00	.....
2 to 3 ft., br.	10.00	90.00	.....
2 to 3 ft., B&B, heavy clumps.	15.00	125.00	.....
3 to 4 ft., B&B, heavy clumps.	22.50	200.00	.....
EUONYMUS PATENS			
12 to 18 ins.	15.00	125.00	.....
18 to 24 ins.	20.00	175.00	.....
24 to 30 ins.	22.50	200.00	.....
MAGNOLIA GRANDIFLORA (Southern Magnolia)			
30 to 36 ins.	30.00	275.00	.....
3 to 4 ft.	35.00	300.00	.....
4 to 5 ft.	40.00	.....	.....
NANDINA DOMESTICA			
12 to 18 ins.	12.50	100.00	.....
18 to 24 ins.	17.50	150.00	.....
24 to 30 ins.	20.00	175.00	.....

NUT TREES

CASTANEA MOLLISSIMA (Chinese Chestnut)			
(This is the true blight-resistant Chinese Chestnut from an orchard of selected strain.)			
	Per 10	Per 100	Per 1000
18 to 24 ins., 2-yr., S.	\$ 5.00	\$40.00	.....
2 to 3 ft., 2-yr.	7.00	55.00	.....
3 to 4 ft., 2-yr.	9.00	75.00	.....
HICORIA LACINIOSA (Shellbark Hickory)			
HICORIA OVATA (Shagbark Hickory)			
12 to 18 ins., S.	1.80	12.00	\$ 85.00
18 to 24 ins., S.	2.00	15.00	100.00
2 to 3 ft., S.	2.25	17.50	125.00
JUGLANS CINEREA (White Walnut "Butternut")			
3 to 4 ft., S.	4.50	35.00	.....
4 to 5 ft., S.	5.50	45.00	.....
5 to 6 ft., S.	8.00	65.00	.....
JUGLANS NIGRA (Black Walnut)			
3 to 4 ft., S.	3.00	16.00	110.00
4 to 5 ft., S.	4.00	20.00	130.00
5 to 6 ft., S.	4.50	25.00	175.00
JUGLANS SIEBOLDIANA (Japanese Walnut)			
2 to 3 ft., S.	4.50	37.50	.....
3 to 4 ft., S.	6.00	.....	.....
4 to 5 ft., S.	7.50	.....	.....
5 to 6 ft., S.	10.00	.....	.....
PECAN, STUART			
3 to 4 ft.	12.50	115.00	1000.00
4 to 5 ft.	15.00	125.00	1100.00
5 to 6 ft.	17.50	140.00	1250.00
6 to 8 ft.	25.00	225.00	.....
8 to 10 ft.	37.50	350.00	.....

VINES and CREEPERS

LONICERA JAPONICA HALLIANA (Hall's Japanese Honeysuckle)			
		Per 1000	
Small, L.O.	.....	\$ 7.50	.....
Medium, L.O.	.....	12.50	.....
2-yr., T., No. 1	.....	75.00	.....
2-yr., T., No. 2	.....	65.00	.....
2-yr., T., No. 3	.....	55.00	.....

CONIFEROUS EVERGREENS

JUNIPERUS CHINENSIS PFITZERIANA (Pfitzer Juniper)			
	Per 10	Per 100	
15 to 18 ins.	\$22.50	\$200.00	.....
18 to 24 ins.	25.00	225.00	.....
24 to 30 ins.	30.00	275.00	.....
JUNIPERUS COMMUNIS ASHFORDI (Ashford Juniper)			
18 to 24 ins.	17.50	150.00	.....
24 to 30 ins.	20.00	175.00	.....
30 to 36 ins.	22.50	200.00	.....
3 to 4 ft.	25.00	225.00	.....
JUNIPERUS COMMUNIS HIBERNICA (Irish Juniper)			
24 to 30 ins.	15.00	125.00	.....
30 to 36 ins.	17.50	150.00	.....
3 to 4 ft.	20.00	175.00	.....
4 to 5 ft.	22.50	200.00	.....
THUJA OCCIDENTALIS (Woodward Globe)			
15 to 18 ins.	20.00	175.00	.....
18 to 24 ins.	22.50	200.00	.....
24 to 30 ins.	27.50	250.00	.....
THUJA OCCIDENTALIS PYRAMIDALIS (American Pyramidal Arborvitae)			
24 to 30 ins.	20.00	175.00	.....
30 to 36 ins.	22.50	200.00	.....
3 to 4 ft.	25.00	225.00	.....
4 to 5 ft.	30.00	275.00	.....
TSUGA CANADENSIS (Canadian Hemlock)			
18 to 24 ins.	22.50	200.00	.....
24 to 30 ins.	30.00	275.00	.....
30 to 36 ins.	37.50	350.00	.....
3 to 4 ft.	45.00	400.00	.....

MOST OF THE ABOVE ITEMS ARE ALSO AVAILABLE IN LINING-OUT STOCK.

Plant Notes Here and There

By C. W. Wood

In a recent letter a Virginia reader posed some questions on *Romneya coulteri*, its culture and propagation, which I did not feel competent to answer; so I referred them to a California friend with the following gratifying results. But before going on to his remarks, it may be well to refer briefly to our experiences with the plant.

Our personal efforts to grow the plant have not been satisfactory, owing, so we think, to our dry soil and windswept situation. But that is only conjecture, and there may be other factors at the bottom of our difficulties. In any event, a friend who lives 50 miles north of our place does well with the plant under these conditions! The garden is within sight of Lake Michigan and its ameliorating influence. The plant, as well as most of the garden, is protected on all sides from cold winds and is further protected, after being cut down in late fall, by a mulch of leaves and brush.

Our California friend gives the following tips on culture and propagation:

"For best results, the plant needs a good deal of moisture in a well-drained soil. To obtain these results in the garden, we recommend our customers to mulch around the plant before dry weather is expected, so that an occasional wetting down with the hose will keep it satisfied. Later the mulch may be lightly worked into the surface, supplying some of the nutriment needed for a good performance. It does well for us, so long as it is not allowed to dry out, in either sun or light shade.

"It may be grown from seeds, but in that case it takes several years to bring it to a flowering state. And it always transplants with difficulty, especially when in a growing state. Its habit of sending out long underground stems which end in a sucker-like growth, sometimes far from the plant and in the most unlooked-for spots, affords another means of increase. If this stem is severed between the sucker and the parent soon after it appears and is allowed to remain there until dormant, it may be moved to its permanent place. Even quicker increase is possible by means of root cuttings. Here in California we have found late October or November the best time to insert the cuttings, with early spring,

say about February, second best. Select roots about one quarter of an inch thick and cut them into 2-inch pieces, lay the pieces horizontally in shallow furrows and merely cover them with the fine, sandy compost used in the cutting frame or flat, as the case may be. A mild bottom heat will, we have found, hasten growth, and a close atmosphere until top growths show will further insure success. When top growths do appear, admit a little air to the case or frame, gradually increasing the amount until the new plants can stand full exposure."

The Gladwin

The sight of a planting of the Gladwin, *Iris foetidissima*, in bloom is not an inspiring one, as all know who have grown it and as I had

freshly impressed on my mind recently when I saw a group in an amateur planting. The small, bluish flowers were far from being impressive, and the whole plant would not elicit much enthusiasm from a gardener who did not know what would come later. For that reason, the commercial grower with stock of the Gladwin to sell would have to depend upon his own enthusiasm for the plant or upon colored pictures of its fall and winter aspects to create a buying urge in his customers. It is not until the large pods open in autumn, exposing the persistent and showy, scarlet seeds, that the plant shows its full beauty. It is an accommodating plant, adjusting itself to the full sun and considerable shade and to light as well as heavy soil. After going through another sea-

BIG

In our 500 acres of nurseries, we have one of the largest available supplies of big specimen material. We have an extensive selection of trees and shrubs of all types and varieties.

This large specimen material includes:

- Azaleas
- Taxus Fastigiata
- Taxus Repandens
- Hybrid Rhododendron
- Taxus Cuspidata
- Ilex Buxifolia
- Ilex Opaca

For
35 years
one of America's
leading nurseries

DISPLAY GARDENS

7817 York Road,
Towson 4, Maryland

NURSERIES

Cockeysville, Maryland.



PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

PEEKSKILL NURSERY

SHRUB OAK, N. Y.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

TAXUS

Upright, 4 to 14 ft.
Truckloads only, no boxing.

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BABYLON, L. I., N. Y.



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VITA- BAND 10	QUANTITY PER CASE	2M	2M	2M	2M	2M	1M	500	500
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son of spring flowers, I am ready to say again that one would have to look a long time to find a plant of greater beauty or more value in the shady parts of the garden than our native foamflower, *Tiarella cordifolia*. It is, in my opinion, one of the loveliest of natives and is easy to handle in light, leafy soil and shade. There it will spread out clouds of foamlike, creamy-white flowers in May and June, making a lovely picture, especially when combined with *Phlox divaricata* and other shade lovers of its season.

Although the creamy-white type is the one most often seen, it has varied into several forms, including the purple-flowered variety, *purpurea*, others with rose-pink and wine-red flowers and one known as variety *marmorata*, with lovely bronze foliage marbled with purple and blackish green. The last named is to be numbered with the most striking of natives with variegated foliage.

Tiarella is a tufted plant, producing broad spreads of handsome, cordate leaves and flower stems from six inches to a foot, or perhaps more, in height. It has great possibilities in the hands of skillful gardeners, both as an ornament and as a subject for improvement.

Eucomis

I have an inquiry from a reader in Arkansas on the hardness and desirability of the pineapple flower. So little is said in the literature about the hardness of the different eucomis species, or at least so little appears in the literature, that nothing positive can be said on the subject. It is probably safe to say that some kinds are much harder than is generally supposed. That is true of *E. punctata*, at least, which proved to be hardy as far north as Massachusetts, and it took a protracted period of subzero temperature to kill it in this garden when it was under trials in the early 1930's. These experiences would indicate that it probably could be used in the open as far north as St. Louis and perhaps farther north.

The plant would probably not sell well because of its beauty alone, but fortunately there is always a demand for the curious and odd. In the latter sphere, *E. punctata* can hold its own with the oddest. It is a member of the lily family, throwing up from a 2-inch, tunicated bulb a rosette of handsome leaves, 12 to 18 inches long and three inches broad, spotted brown purple on the underside in their lower extremities. The oddest feature of the plant is the foot-tall

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Juniperus columnaris, 3 to 4 ft., B&B	4.50
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scape, which emerges from the rosette in summer, carrying a cylindrical raceme of greenish-brown flowers, surmounted by a tuft of leafy bracts, which give the genus the name of eucomis, meaning beautiful hair or topknot.

It would undoubtedly appeal on its oddness alone to the amateur, and I should, therefore, expect it to be a good item in the hands of the neighborhood grower. It may be grown from seeds, which are slow to germinate and slow in growth in their early stages, and may also be propagated from offsets. It is of easy cultivation in almost any sunny, well-drained spot.

Doronicum Pardalianches

All leopard's-banes that I know are desirable plants, some because of their garden value, others as cut flowers and a few for a combination of these two virtues. Doronicum pardalianches is, because it joins these two desirable traits with others of equal merit, a brilliant example of the last group. The literature reminds us that, "while all species are typically 1-flowered, any of them may have now and then more than one flower on a stem, and this species (pardalianches) may have one to five flowers." A form in gardens as Goldbunch is evidently a selection of the multiple-flowered forms, for it is habitually many-flowered, holding its bunches of golden daisies aloft on 2-foot stems.

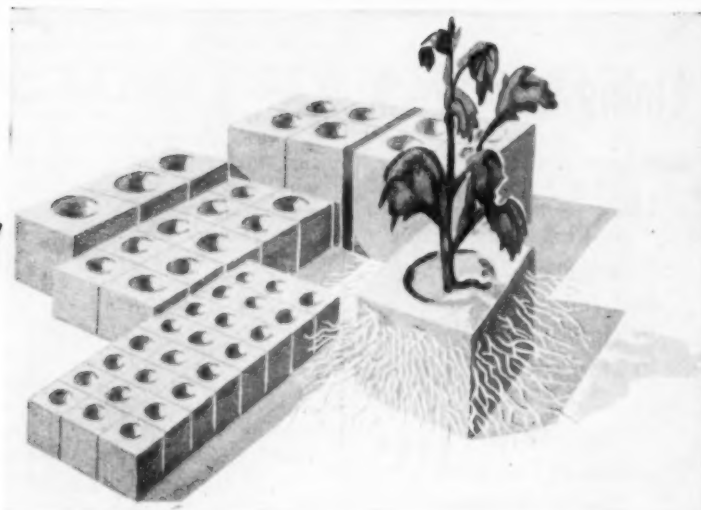
As stated before, it is a plant of many uses, being especially valuable in the garden because it blooms later, at least in our trials, than the better known D. plantaginum and the latter's variety excelsum, thereby carrying on the leopard's-bane season. The bunched inflorescence is, of course, its best recommendation as a cut flower, but its pleasing canary-yellow color is also in its favor. It is accommodating, doing well in sun or shade, though it will probably need watering if planted in full sun.

It may be grown from seeds, preferably sown outdoors in fall, but even then they may be slow and uncertain unless they are fresh. It may also be grown from cuttings of the tuberous roots, if they are made in spring and handled like one does gaillardias and summer phlox.

Polemonium Blue Pearl

About 15 years ago, when Polemonium Blue Pearl was introduced in this country, I would have confidently predicted, and probably did, that it would become widely

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- Juniperus Pfitzeriana**
- Viburnum Carlesi**

Two-year transplants in:

- Cotoneaster Divaricata**
- Cotoneaster Horizontalis**
- Cotoneaster Praecox**
- Euonymus Vegetus**
- Forsythia Spring Glory**
(new)
- Ilex Convexa** (cuttings)
- Prunus Maritima**
(Beach Plum)

One-year transplants in:

- Juniperus Hetzi**
- Magnolia Soulangeana**
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- Regel Privet** (genuine)

Seedlings in:

- Prunus Maritima**
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- Viburnum Carlesi**

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Turner Rd. Newport, R. I.

popular within the next score years. Look at what has happened in the meantime! A search of the catalogs reveals few listings (two if I remember correctly), and I practically never see it in neighborhood nurseries that I visit in spring. When I ask why the plant is so seldom seen now, no one seems to know; in fact, most growers who have come upon the scene during the past 10 years do not know the plant at all, and the only reason that could possibly apply is that it moves poorly when in flower.

Certainly one could not find fault with the lovely blue color as it appeared when first introduced. It could be, I suppose, that indiscriminate growth from uncontrolled, garden-saved seeds may have caused it to lose some of its uniformly lovely blue color and perhaps some of its free-flowering habit of covering its little bushes with flowers for a full month, commencing in April.

Cerastium Strictum

No doubt most careful gardeners keep away from the mouse-ear chickweeds because of the invasiveness of the few popular kinds. If that is true, they are missing some really useful garden material, including *Cerastium strictum*, a shade lover that grows in nearly all northern lands. Its uses are limited, to be sure, because it is a spreader; even so, it makes a pretty green carpet for a difficult shady spot. And the cloud of white flowers on 6-inch stems (perhaps taller in rich soil) for close to two months, commencing in May, gives it special value in those dark corners.

Draba Doerfleri

Generally speaking, the white-flowered drabas are somewhat dull, insignificant things. There are, as anyone knows who has investigated these crucifers, a few exceptions to the rule, and of these *D. doerfleri* is a notable one. This plant, from high places in Albania, grows about two inches tall, with its small, linear, spatulate leaves in rosettes and its pure white flowers in flat-topped racemes. An appraisal of the plant would place it at or near the top of white-flowered drabas as an ornament for the rock garden, wall or paved walk. It is of easy culture under ordinary draba treatment, which includes a light soil and sun, or, if the climate is dry and hot, a position that is shaded during the hottest part of the day. Like most drabas, it comes readily from seeds, which are available in Europe.

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Our price list sent upon request.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

THE GASPE PENINSULA

I had often heard that the Gaspé peninsula in Canada afforded some of the most magnificent and ruggedly beautiful scenery to be found in North America, and it was one of my ambitions to see it. I was not disappointed, for it is truly beautiful. Starting at the city of Quebec and following the St. Lawrence river and gulf to its mouth, we saw most of the 1,000 miles of beautiful and picturesque drive. Since Quebec was almost 1,000 miles from our home and we wanted to be able to see things and talk to people, we took our time during the two weeks so that we could fully enjoy the experience.

The drive or highway skirts the shore of the St. Lawrence at elevations of from a few feet to 400 or 500 feet and is rarely out of sight of the water. The St. Lawrence at Quebec runs in a relatively narrow gorge, which slowly widens as you leave the city. Not far down river you pass the Isle de Orleans, dotted with small farms, small towns and woods that seem to be part of a fairyland. Back of the island and on the far shore rear up the impressive Laurentian mountains, much more rugged than those on the south shore. As the river widens into the gulf, the far shore and its hazy mountains gradually fade out of sight, so that one's attention becomes more concentrated on the near shore line and its ice-covered boulders, villages and inland hills that are never far from the shore.

One thing that surprised me was that, after reading articles about the Gaspé at home and even reading Canada's own travel literature, I had the impression that the people had retained their Old World and provincial customs and that modern civilization had not fully penetrated the area. This is in no way true, and somehow I cannot believe it has been true for some time. Of course, the modern highway is recent, but the large towns, even the cities, were not built in a day. The city of Matane is a beautiful, modern one, but, more significant, we were rarely out of sight of one of its magnificently beautiful stone Roman Catholic churches, which dominate all villages and towns. Though we were surprised at

the lack of provincialism in the people, we found them completely charming and friendly, for, while tourism is one source of income, it is not their only one; yet we enjoyed nothing but pleasant contacts with these French-speaking people, including several instances when their friendliness exceeded ordinary courtesy.

A week in one area does not entitle one to write a book, but a plantsman has an advantage in that he can gain considerable knowledge about plant life in a relatively short visit. The first striking thing I noticed was that tulips, peonies, lilacs, strawberries and fruit trees were all in bloom at once. Our tulips had been over their blooming period for at least six weeks, as had most of the other

things. I had in the past run across a 2-week differential, but never one so great as this. In spite of the climate, the remoteness and the ruggedness, there is an interest shown here in plants and gardens. These things generally follow prosperity, and these people are prosperous. I was a little amused to see some new homes being built with picture windows on both sides of the house, but I soon saw that this had sense, as the houses look both across the St. Lawrence and back to the beautiful hills in the hinterland. I even saw one small nursery about 100 miles out of Quebec. The variety of plants was of necessity small, for the winters cannot help being rugged indeed, since the wintry winds that cross the St. Lawrence from northern Quebec and Labrador must be extremely severe.

Still another thing caused me considerable surprise and this was the presence of summer estates at some of the beaches, in particular at Metis beach. I was aware that for a

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
<i>Clethra alnifolia</i>	Per 10	Per 100
18 to 24 ins.	\$4.00	\$35.00
2 to 3 ft.	6.00	50.00
3 to 4 ft.	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

SUGAR MAPLES		
	Unit price in quantities	
	10 to 50 to	
<i>Acer saccharum</i>	49	250
1 1/4 to 1 1/2 in. cal.	\$ 4.00	\$ 3.50
1 1/2 to 1 3/4 in. cal.	6.00	5.00
1 3/4 to 2 in. cal.	7.00	6.00
2 to 2 1/4 in. cal.	9.00	8.00
2 1/4 to 3 in. cal.	12.00	10.00

CLUMP BIRCH		
<i>Paper Birch</i>	Per 10	Per 100
5 to 6 ft.,		
3 stems and up.....	\$ 30.00	.....
6 to 8 ft.,		
3 stems and up.....	40.00	.....
<i>Gray Birch</i>		
4 to 6 ft.		
3 to 6 stems.....	20.00	\$150.00
6 to 8 ft.,		
3 to 6 stems.....	35.00	250.00

All stock is first-quality collected material except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

PAPER BIRCH		
<i>Betula papyrifera</i>	Per 100	Per 1000
2 to 3 ft.	\$ 8.00	\$ 70.00
3 to 4 ft.	25.00	200.00
4 to 6 ft.	40.00	300.00
6 to 8 ft.	100.00	.....

LINING-OUT STOCK		
<i>Acer saccharum</i>		
2 to 3 ft.	\$12.00	\$100.00
3 to 4 ft.	30.00	250.00
4 to 6 ft.	60.00	500.00
<i>Clethra alnifolia</i>		
6 to 18 ins.	7.00	60.00
<i>Ilex verticillata</i>		
1 to 2 ft.	7.00	60.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.	8.00	70.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	8.00	70.00
<i>Viburnum dentatum</i>		
1 to 2 ft.	8.00	70.00

HEMLOCK TRANSPLANTS		
<i>Tsuga canadensis</i>		
4 to 8 ins., trans., 2-2.	15.00	120.00
8 to 12 ins., trans., 2-2.	20.00	180.00

HEMLOCK SEEDLINGS		
<i>Tsuga canadensis</i>		
4 to 8 ins.	4.00	20.00
8 to 12 ins.	6.00	50.00
12 to 18 ins.	8.00	70.00

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INDIANA, INDIANA CO., PA.

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July 14, 1953

Mr. Frank K. Chestnut
Niagara Chemical Division
Food Machinery and Chemical Corporation
Middleport, New York

Dear Frank:

In response to your letter of June 30, 1953, I will say that we continue to be more than pleased with the performance of Niagara-thal defoliant, when used on a wide variety of deciduous plant material. We have tested the material in a limited way for two years and during the third year we used it extensively in a substantial way for successful defoliation of nursery stock that is to be used in early fall shipments.

We plan to use this material on an even larger acreage during the current fall season and will be happy to report to you further on the results.

Very sincerely,

Paul Stark, Jr.
Paul Stark, Jr.
STARK BRO'S NURSERIES

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Oldest Nursery in America -- Largest in the World

**"We continue to be more
than pleased": reports
PAUL STARK, JR.**

When you spray ornamentals, shrubs, fruit trees and berries before digging with Niagara-thal-DF Liquid, you don't have to wait for frost to defoliate the plants. You eliminate all risk of losing valuable stock through freezing. Too, you can plan your digging and storage program in advance; utilize your labor to the best advantage.

Cleanly defoliated nursery stock is easier for you to inspect and grade; prevents molding, scalding, etc. which lowers grades and lowers returns.

The effectiveness and economy of Niagara-thal-DF Liquid has been thoroughly proved. Let it and us help you. Buy at Niagara dealers or write Dept. DF, Middleport, N.Y. for literature and name of supplier nearest you.

EASY AND ECONOMICAL TO APPLY—COMPLETELY EFFECTIVE



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Young fruit trees before appli-
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Niagara CHEMICAL DIVISION

FOOD MACHINERY AND CHEMICAL CORPORATION

Middleport, N. Y.



BARGAINS In Lining-out Stock

We have not raised the price of most of our small plants in years, but the price of landscape stock is steadily advancing. Plant some of our items now and make yourself some real money.

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 16-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.

Per 100
4 to 6 ins., T. \$15.00
6 to 8 ins., T. 20.00

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwoodlike leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

Each
6 to 8 ins., 2-yr., T. 15c
8 to 10 ins., 2-yr., T. 20c

ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

4 to 8 ins., T. \$15.00 per 100

AZALEA KURUME

2-yr. T. 4 to 8 ins., \$15.00 per 100. Very hardy. Will stand 15 degrees below zero. Gives a great variety of color and types, from choice whites to orchids, deepest pinks and reds.

JAPANESE BOXWOOD

Buxus japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T., \$10.00 per 100.

Send for list of rare plants.

ALANWOLD NURSERY
NESHAMINY, Bucks Co., PA.

good many years, especially since the railroad had been built, there were a number of fashionable hotels on the peninsula; yet I did not realize that there were estates, much in the nature of those we find here in the Chesapeake bay country. Naturally, I could not visit them, but two or three of which I could gain a glimpse showed evidence of having been landscaped by professionals. This area seemed to be settled with persons more fluent in English than usual.

The Gaspé is forested with fir and spruce, and we were there when the new growth was on the trees. While we saw considerable birch and tamarack in the area between Montreal and Quebec, the forests on the peninsula were nearly all evergreen. Of course, a good bit of the forests had been cut or were second (or later) growth; yet there were still plenty of indications of a thriving forest products industry, one of the people's sources of wealth. For power to run their mills they had but to tap one of the numerous short but rapidly flowing streams that pour out of the hills into the St. Lawrence, some creating pretty, small waterfalls. Incidentally, the hotels never serve you ice in the drinking water, because it comes out of the spigot not too much above freezing.

Agriculturally, perhaps the land showed the climatic difficulties more than in any other fashion. Most farmers had small gardens in which potatoes and beans were growing and even a few tomato plants which had just been set out. There were a few large potato fields opposite the section in Maine where so many are grown. Near Rivière du Loup we saw what was obviously a large monastery, and in a field nearby we saw many rows of vegetable and similar plants, each with its own separate white label. We could only surmise that here was important agricultural research being carried on, presumably to improve the crop-producing possibilities of the area.

Other than these evidences it was obvious that the principal agricultural occupation is dairying, for the land is given over almost completely to grass, hay and pasture. One singular custom of the area is the manner of laying out crops in the field. One sees an almost continuous succession of narrow fields fenced in by split-rail fences, which run back from the highways either to the shore or the hills. While they may be narrow, they are often a mile or more long. I do not know why the people do this, but my wife guessed that it was

Shade's Nursery Offers the Following Evergreens.

Landscape Material.

Twice Transplanted—Regularly Sheared. No boxing or shipping.

Terms: Cash, B&B at the nursery.

1500	<i>Berberis thunbergii atropurpurea</i> , 15 to 18 ins.,	Each \$0.35
150	<i>Juniperus excelsa stricta</i> , 18 to 24 ins.,	2.75
400	<i>Retinospora plumosa aurea</i> , 18 to 24 ins.,	2.25
500	<i>Retinospora squarrosa veitchii</i> , 18 to 24 ins.,	2.00
675	<i>Taxus cuspidata</i> , 15 to 18 ins.,	3.50
1125	<i>Taxus cuspidata intermedia</i> , 15 to 18 ins.,	3.50
1800	<i>Taxus media hatfieldii</i> , 18 to 24 ins.,	3.00
1000	<i>Taxus media hicksii</i> , 18 to 24 ins.,	3.00
1000	<i>Thuja occidentalis elegantissima</i> , 24 to 30 ins.,	2.00
700	<i>Thuja occidentalis globosa</i> , 15 to 18 ins.,	2.00
2500	<i>Thuja occidentalis pyramidalis</i> , 24 to 30 ins.,	2.00

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Fall list will be ready about Sept. 1.

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AUTOMATIC controls, mist humidification, plastic film and electrical equipment make it possible.

THE IDEA is to root the cuttings in soil. Then move the "greenhouse" off of the cuttings instead of moving the cuttings out of the greenhouse. Let them grow on right where they rooted. Trouble and costs are saved. Stronger and healthier plants result.

WHY? Because the plant isn't lifted, potted, carried through the greenhouse or lath house and then bedded out. It has been outside from the beginning in the sun and the rain where a plant should be. From the day it rooted, it has made normal growth under natural conditions.

WHAT? Leafy softwood cuttings. Varieties range from tender tips of Weigela Vanioeki to big shoots of Ilex Opaca. And from soft Syringa to Viburnum Carlesii.

HOW? They are rooted in rich dirt on top of the ground. It's done under a sheet of polyethylene plastic film laid over a portable wire framework. Inside are mist spray

nozzles under automatic control. The cuttings get water when they need it—not just when the propagator happens to think of it. Some days they are sprayed as many as 127 separate times. And they like it.

THEY ROOT. We move off the equipment and—presto!—they are right out in the open, in soil, under natural conditions. Through the rest of the summer they make normal growth in the hot sun. In the fall they harden up for winter. They can take it.

THEY GO through their first winter right where they rooted—dormant, as a normal plant should be—ready to burst into natural growth the next spring. Then, if any are left unsold, they go into the open field to grow into super-liners or into finished wrapping stock for mail order or garden centers.

THE RESULT is a healthy plant—grown in a natural way—never forced to grow out of season or under abnormal conditions. All the weak ones die in our hands—not in yours. So you get a healthy plant that will grow in your open field because it has al-

ready shown that it will grow in the open here. It's a low-cost operation, so we can make you a reasonable price.

FINISHED stock from our open field will please your mail-order or garden center customers. Our field production is designed for that trade. Small sizes, high quality, at reasonable prices—and in quantity. Contract now for your future needs, or just tell us what your trade demands. We will gamble on growing some your way and bet that, when you see them, you can't resist buying.

ORDER now from the list below. If you don't see your variety there, tell us what you are interested in. Let us tell you what we can do for you. If you have stock plants let us root it for you.

COME by to see us. We will take a lot of pleasure in showing you around. Winchester is a nursery center. Lots of competition and lots of other stock to see. If you can't come, write us or call us. Telephone 2358. H. M. Templeton, Jr.



The portable rooting equipment showing plastic film and mist nozzles which are under automatic electrical control. That's only an inch of sand over good, rich dirt—just sand enough in which to poke those holes.



Remove the equipment and there they grow—there they go through their first winter under natural conditions, cold and dormant as a plant should be, ready to grow normally next spring.

BG means bed-grown.

F means field.

RC means rooted cutting.

S means seedling.

SWC means softwood cutting.

T means transplanted.

All prices are given in cents per each.

ABELIA EDWARD GOUCHER—RC, fall, 5c; spring, 7c. BG, SWC, 4 to 6 ins., fall, 7c; spring, 9c; 6 to 8 ins., fall, 9c; spring, 11c. F, SWC, spread measure 6 to 8 ins., 14c; 8 to 10 ins., 15c.

ABELIA GRANDIFLORA—RC, fall, 4c; spring, 6c. BG, SWC, 4 to 6 ins., fall, 6c; spring, 8c; 6 to 8 ins., fall, 7½c; spring, 9½c. F, SWC, spread measure 6 to 8 ins., 14c; 8 to 10 ins., 18c; 10 to 12 ins., 24c; 12 to 15 ins., 30c.

BERBERIS JULIANAE—RC, 10c. BG, SWC, 4 to 6 ins., 15c; 6 to 8 ins., 20c.

BERBERIS ARGENTEA—RC, 8c. BG, SWC, 6 to 8 ins., 12c; 8 to 10 ins., 14c; 10 to 12 ins., 18c.

BUXUS SEMPERVIRENS—BG, 2 to 4 ins., 7c; 4 to 6 ins., 10c.

BUXUS SUFFRUTICOSA—BG, 2 to 4 ins., 8c; 4 to 6 ins., 12c.

CHAENOMELES LAGENARIA ALBA (White-flowering Quince)—BG, SWC, 6 to 8 ins., 8c; 8 to 10 ins., 10c. F, SWC, 10 to 12 ins., 20c.

CHAENOMELES SUPERBA (Hybrid Up-right Red)—BG, SWC, 6 to 8 ins., 8c; 8 to 10 ins., 10c. F, SWC, 12 to 18 ins., 20c.

ELAEAGNUS FRUTLANDI—RC, 8c. BG, SWC, 6 to 8 ins., 10c; 8 to 10 ins., 14c. F, SWC, 10 to 12 ins., 20c.

EUONYMUS ALATUS COMPACTUS—RC, 5 to 7 ins., 7c. BG, SWC, 4 to 6 ins., 12c; 6 to 8 ins., 15c.

EUONYMUS FORTUNEI CARRIERI (True)—RC, 7c. BG, SWC, 4 to 6 ins., 12c; 6 to 8 ins., 15c.

EUONYMUS JAPONICUS—RC, 5c. BG, 6 to 8 ins., 7c. F, 8 to 10 ins., 15c.

EUONYMUS KIAUSCHOVICUS (Large-leaf Patens)—RC, 6c. F, 9 to 12 ins., 15c; 12 to 15 ins., 20c.

EUONYMUS KIAUSCHOVICUS—Juvenile form. Small leaf. RC, 5c. F, 9 to 12 ins., 14c; 12 to 15 ins., 18c.

FORSYTHIA INTERMEDIA—F, SWC, 15 to 18 ins., 3 canes and up, 15c; 18 to 24 ins., 5 canes and up, 20c.

GINKGO BILOBA—S, F, 4 to 6 ins., 5c; 6 to 8 ins., 7c.

HYDRANGEA P. G.—BG, SWC, 6 to 12 ins., 8c. F, 12 to 15 ins., 2 canes and up, 15c.

ILEX CORNUTA—RC, large, 4 to 6 full leaves, 8c. BG, 6 to 8 ins., 12½c.

ILEX CORNUTA BURFORDI—RC, large, 4 to 6 full leaves, 8c. BG, 6 to 8 ins., 12½c.

ILEX CRENATA CONVEXA—RC, 2 to 4 ins., fall, 5c; spring, 7c. BG, 4 to 6 ins., 15c.

ILEX HOWARDI—RC, 10c. BG, 6 to 8 ins., 15c; 8 to 10 ins., 20c.

ILEX OPACA—Guaranteed male and guaranteed female. From cuttings, RC, 15c. BG, 4 to 6 ins., 17½c; 6 to 8 ins., 22½c; 8 to 10 ins., 27½c; 10 to 12 ins., 35c.

ILEX ROTUNDIFOLIA—RC, 2 to 4 ins., fall, 5c; spring, 7c. BG, 4 to 6 ins., 12c; 6 to 8 ins., 15c.

JASMINUM FLORIDUM—BG, SWC, 6 to 8 ins., 6c; 8 to 12 ins., 10c. F, 3 canes and up, 12 to 15 ins., 15c; 15 to 18 ins., 20c; 18 to 24 ins., 25c.

JASMINUM NUDIFLORUM—BG, SWC, 6 to 8 ins., 6c; 8 to 12 ins., 10c. F, 3 canes and up, 12 to 15 ins., 15c; 15 to 18 ins., 20c; 18 to 24 ins., 25c.

KOLKWTZIA AMABILIS—BG, SWC, 8 to 10 ins., 12c.

LAUROCERASUS CAROLINIANA—S, BG, 4 to 6 ins., 6c; 8 to 12 ins., 8c.

LIGUSTRUM SINENSE PENDULUM—BG, SWC, 6 to 8 ins., 6c; 8 to 12 ins., 8c. F, 3 canes and up, 12 to 18 ins., 15c; 18 to 24 ins., 20c.

MAGNOLIA GRANDIFLORA—S, BG, 4 to 6 ins., 6c; 6 to 8 ins., 8c; 8 to 10 ins., 10c.

MAHONIA BEALEI—1-yr. S, suitable for potting, fall, 5c; spring, 7c.

PRUNUS LAUROCERASUS OFFICINALIS—RC, 10c. F, 8 to 10 ins., 17½c; 10 to 12 ins., 22½c.

PRUNUS LAUROCERASUS SCHIPKAENSIS—RC, 10c. F, 6 to 8 ins., 15c; 8 to 10 ins., 20c; 10 to 12 ins., 25c.

PYRACANTHA GRABERI—Red berry, T, BG, pruned and staked for canning this winter. Ready to berry on old wood, 12 to 18 ins., 35c.

SPIRAEA ANTHONY WATERER—RC, 5c. BG, SWC, 4 to 6 ins., 8c. F, spread measure 4 to 6 ins., 15c; 6 to 8 ins., 20c.

SPIRAEA PRUNIFOLIA PLENA—BG, SWC, 8 to 10 ins., 7c.

SYRINGA HYBRIDA, BUFFON, CONGO, WALDECK-ROUSSEAU—Own-root from SWC, BG, 4 to 6 ins., 12½c.

VIBURNUM BURKWOODI—Own-root from SWC, BG, 10 to 12 ins., 25c.

VIBURNUM CARLESI—Own-root from SWC, BG, 6 to 8 ins., 35c.

VIBURNUM OPULUS ROSEUM—SWC, F, 10 to 12 ins., 15c.

VIBURNUM RHYTIDOPHYLLUM—RC, 10c. F, 4 to 6 ins., 15c; 8 to 10 ins., 22½c; 10 to 12 ins., 30c.

WEIGELA EVA RATHKE—BG, SWC, 6 to 8 ins., 8c; 8 to 12 ins., 12c.

WEIGELA VARIEGATA NANA—BG, SWC, 6 to 8 ins., 8c; 8 to 12 ins., 12c.

WEIGELA VANICKEI—BG, SWC, 6 to 8 ins., 8c; 8 to 12 ins., 12c. F, 17½c; 12 to 18 ins., 22½c.

TERMS

FREE PACKING: Rooted cuttings and liners in sphagnum moss and plastic sheet. F.O.B. Winchester, Tenn. Include payment covering parcel post charges; otherwise shipped express collect. Established accounts—net 30 days. Strictly wholesale. Write on letterhead or send permit number.

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U.S. HWYS. 64-41A
WINCHESTER — TENNESSEE

FALL OFFERINGS

Terms—Cash before delivery.

FOR WHOLESALE—Treated for Japanese beetle grub and may be shipped out of quarantined area.

		Each
<i>Taxus cuspidata capitata</i>		
13 2 to 2 1/2 ft.	.....	\$ 4.00
14 2 1/2 to 3 ft.	.....	5.00
20 3 to 3 1/2 ft.	.....	6.00
24 3 1/2 to 4 ft.	.....	8.00
28 4 to 4 1/2 ft.	.....	12.00
30 4 1/2 to 5 ft.	.....	15.00
19 5 to 5 1/2 ft.	.....	18.00
18 5 1/2 to 6 ft.	.....	20.00
3 6 to 7 ft.	.....	25.00
16 7 to 8 ft.	.....	35.00
24 8 to 9 ft.	.....	40.00
13 9 to 10 ft.	.....	50.00

Taxus media hatfieldi 12.00

<i>Taxus Vermeulen</i>		
91 1 1/2 to 2 ft.	.....	2.50
261 2 to 2 1/2 ft.	.....	3.00
557 2 1/2 to 3 ft.	.....	4.00
137 3 to 3 1/2 ft.	.....	4.50
20 3 1/2 to 4 ft.	.....	5.00

Not treated for shipment out of Japanese beetle area:

<i>Taxus media hatfieldi</i>		
50 2 1/2 to 3 ft.	.....	6.00
50 3 to 3 1/2 ft.	.....	8.00
100 3 1/2 to 4 ft.	.....	10.00

Taxus media hicksii 6.00

75 3 1/2 to 4 ft. 8.00

Fagus sylvatica 15.00

75 9 to 10 ft. 20.00

Larix kuemperi—Japanese Larch 10.00

50 7 to 8 ft. 10.00

Pinus cembra 4.00

20 2 1/2 to 3 ft. 5.00

20 3 to 3 1/2 ft. 6.00

Pinus nigra austriaca 4.00

50 2 to 3 ft. 5.00

Pseudotsuga taxifolia (douglasii) 2.50

40 1 1/2 to 2 ft. 3.00

45 2 to 2 1/2 ft. 3.50

93 2 1/2 to 3 ft. 4.00

41 3 to 3 1/2 ft. 4.50

35 3 1/2 to 4 ft. 4.50

Thuja occidentalis nigra 8.00

100 7 to 8 ft. 9.00

200 8 to 9 ft. 10.00

100 9 to 10 ft. 10.00

Euonymus fortunei coloratus20

9000 2-yr., 9 to 15 ins. in flats.20

Euonymus radicans carrierei50

250 2-yr., No. 1. Nice salable plants.50

Hedera helix haitiana30

1500 2-yr., 2 1/2-in. pots.30

600 3-in. pots.40

WANT LIST:

- 1 European Linden . . . 3 to 3 1/2-in. cal.
- 5 Honey Locust . . . 3 to 3 1/2-in. cal.
- 1 Honey Locust . . . 3 1/2 to 4 -in. cal.
- 1 Sweet Gum . . . 3 1/2 to 4 -in. cal.
- 3 Sycamores . . . 3 to 3 1/2-in. cal.
- 4 Flowering Crab Apples . . . 3 to 3 1/2-in. cal.
- 4 Japanese Tree Lilacs . . . 2 1/2 to 3 -in. cal.

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the French Canadian manner of dividing up land among the large families. Much of this land seems satisfactory for growing grass and is not too stony; some of it, however, we found just plain poor and boggy. Of interest to horticulturists was our finding of an occasional outcropping of peat; in one or two places we saw large-scale excavating being carried out in these peat quarries.

Two other plant features stood out; one was the absence of shade trees as we know them, particularly deciduous ones. They probably cannot stand the winters, and it is also possible that the people do not need them. It was pleasantly cool while we were there, and while there may be brief hot spells in July and August it is presumed that the people try to absorb as much sun as they can and have no use for shade trees. Steam heat was necessary at night on two occasions in late June. The other interesting plant feature was the masses of colorful wild flowers we noticed, which also add much to the beauty of the countryside. Particularly noticeable were masses of lupines, columbines, buttercups and several plants that were less familiar.

To say that we enjoyed the trip to the Gaspé is to put it mildly, and for anyone who enjoys spectacular, rugged and beautiful scenery it is worth the long drive. There can be little doubt that there is nothing else in eastern North America to compare with it, and there is so much of the peninsula to see.

MEN'S GARDEN CLUBS MARK ANNIVERSARY

The men's garden club movement in the United States comes of age in September, and the more than 160 affiliates of the Men's Garden Clubs of America in 29 states will join in special programs marking the organization's 21st birthday.

A. Ray Tillman, a Jackson, Miss., banker who currently heads the national organization, has announced a drive to bring the garden club idea into many areas not yet represented in the national program.

As part of the expansion program, the national organization at its annual convention at Memphis, Tenn., in April approved constitutional changes making it a nonprofit corporation to meet internal revenue regulations. This is expected to result in several gifts of funds needed to carry out the task of bringing good gardening information to homeowners throughout the nation.

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8000, one-year buds. 15 varieties.

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COVER ILLUSTRATION

Pseudotsuga Taxifolia

One of the most interesting of the large narrow-leaved evergreens is the Douglas fir, *Pseudotsuga taxifolia*. A large tree at maturity in its native habitat, it reaches to 300 feet or more. In cultivation in the eastern regions, it seldom exceeds 65 to 70 feet and is usually smaller. It is relatively narrow and pyramidal, especially when young, with spreading branches that turn upward at the ends.

The Douglas fir is native to the territory extending from British Columbia to California, Montana, Colorado, west Texas and New Mexico. It was introduced into cultivation in 1827. The generic name comes from the Greek words, *pseudos*, meaning false, and *tsuga*, referring to the hemlock. The species name, *taxifolia*, refers to the taxus-like foliage. The leaves or needles of the Douglas fir are essentially straight, an inch to an inch and a half long, dark green or somewhat bluish on the upper side and lighter on the underside with whitish bands.

Among the characteristics that can be used to identify the Douglas fir is the long, pointed terminal bud, the short petiole and the fact that the bract extends beyond the cone scale, an unusual condition for most evergreens.

The flowers of the *pseudotsuga*, of course, are of no ornamental importance. The fruit is a pendulous cone of two to four inches in length. Several varieties are known, the most common being *P. taxifolia fastigiata*, a pyramidal form with upright branches; *P. taxifolia pendula*, a type with pendulous branches, and *P. taxifolia glauca*, a slower-growing, more compact type with bluish-green foliage.

The Douglas fir, in good soil, is a fast-growing evergreen. The soil should be well-drained, but retain ample moisture. It will do well in sun and at least half shade and transplants readily. It is hardy and relatively free from pests, but requires some pruning when the plants are small to make uniform, compact specimens. Propagation of the species is by seed and of the varieties by grafting.

The Douglas fir can be used where a large narrow-leaved evergreen is desired. It is more adaptable than most of the tree-type narrow-leaved evergreens to the hot and dry climate conditions of the midwest. It is also used extensively as a cut Christmas tree. L. C. C.

LINING-OUT STOCK

FALL, 1953, DELIVERY.

Each per 100

ILEX CRENATA CONVEXA (BULLATA).

2-yr., X, 4 to 6 ins.	\$0.20
2-yr., X, 6 to 8 ins.	.25
3-yr., XX, 6 to 8 ins., bushy, field bed.	.45
3-yr., XX, 8 to 10 ins., bushy, field bed.	.55
4-yr., XX, 10 to 12 ins., bushy, field bed.	.75
Routed cuttings of above.	.10

ILEX CRENATA CONVEXA (from seeds).

These do not come true to convexa type, but they appear to have developed into a superior variety of crenata and it looks like there may be some unusual types in the lot.

2-yr., X, 4 to 6 ins.	.18
2-yr., X, 6 to 8 ins.	.23
3-yr., XX, 6 to 8 ins., bushy, field bed.	.40
3-yr., XX, 8 to 10 ins., bushy, field bed.	.50
4-yr., XX, 10 to 12 ins., bushy, field bed.	.65

ILEX CRENATA.

2-yr., X, 6 to 8 ins.	.25
3-yr., XX, 6 to 8 ins., bushy, field bed.	.40
3-yr., XX, 8 to 10 ins., bushy, field bed.	.50
2-yr., S. \$85.00 per 1000.	

TAXUS CUSPIDATA.

3-yr., XX, 6 to 9 ins., field bed.	.40
3-yr., XX, 9 to 12 ins., field bed.	.50

TAXUS HATFIELDI (Upright).

3-yr., XX, 6 to 9 ins., field bed.	.40
3-yr., XX, 9 to 12 ins., field bed.	.50

TAXUS HICKSI.

2-yr., X, 6 to 9 ins.	.30
-----------------------	-----

TAXUS HENRYI.

Routed cuttings	.11
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AZALEA MOLLIS (HARDY CHINESE AZALEA).

Grown from seeds. All colors mixed.

2 to 4 ins., X.	.16
4 to 6 ins., X.	.20
6 to 8 ins., X.	.25
6 to 8 ins., XX, bushy, field bed.	.40
8 to 10 ins., XX, bushy, field bed.	.50
10 to 12 ins., XX, bushy, field bed.	.65

PIERIS JAPONICA.

6 to 8 ins., XX, field bed.	.40
8 to 10 ins., XX, field bed.	.50
10 to 12 ins., XX, field bed.	.75

CASTANEA MOLLISIMA (HARDY CHINESE CHESTNUTS).

1-yr., S., 8 to 12 ins.	.10
2-yr., X, 12 to 18 ins.	.30
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Landscape Size—Fall Delivery
25 at 100 rate, B&B

	Per 100
Cotoneaster divaricata, finished stock, 2 to 3 ft., B&B	\$175.00
Cotoneaster divaricata, finished stock, 3 to 4 ft., B&B	200.00
Cotoneaster zabeli, finished stock, 18 to 24 ins., B&B	175.00

Lining-out Stock

Cotoneaster divaricata, L.O., 12 to 15 ins., BR.	27.50
Cotoneaster divaricata, L.O., 15 to 18 ins., BR.	35.00
Cotoneaster zabeli, L.O., 12 to 15 ins., BR.	30.00

BUDDLEIA—Summer Lilac

Charming, deep pink, 18 to 24 ins., BR, T.	45.00
Dubonnet, light lavender, 18 to 24 ins., BR, T.	45.00
Imperial Purple, deep purple, 18 to 24 ins., BR, T.	50.00
Red Velvet, velvety red, 18 to 24 ins., BR, T.	45.00
Royal Scarlet, deep red, 18 to 24 ins., BR, T.	50.00
Snowbank, pure white, 18 to 24 ins., BR, T.	50.00

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American Holly 6 to 12 ins., transplants	\$27.50
Viburnum Carlesi 4 to 8 ins., transplants	35.00
Pink-flowering Dogwood 10 to 15 ins., bedded grafts	75.00

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A. A. N. Issues New Legislative Survey

In its annual survey of the legislative scene, the American Association of Nurserymen summarizes the measures which have passed through Congress or are pending before it and reports the success of the association in making representations in the behalf of the industry on matters concerning it. During the past session of Congress, the report states, the A. A. N. was concerned with seven major legislative measures, with the results as follows:

Japanese beetle quarantine revocation. In the revised United States Department of Agriculture budget all funds were eliminated for the continuation of this quarantine and several others. Testimony in opposition to the elimination of these funds by the A. A. N. and others resulted in appropriations approximately equal to last year. In the opinion of the A. A. N. the legislative history of this measure clearly indicates that it is the intent of Congress to continue this and other quarantines in question until June 30, 1954.

Trip-leasing bill, H. R. 3203. This legislation has been supported by all farm groups. It would nullify a regulation of the interstate commerce commission limiting trip-leasing of independent motor trucks to a period of not less than 30 days. For practical purposes this would prohibit trip-leasing, the A. A. N. reports. The bill passed the House and is held up in the Senate committee because of an amendment proposed by the railroads and the interested unions which would complicate rather than simplify the measure and is intended to confuse the issue rather than clarify it, the report continues. The A. A. N. is one of 38 farm groups supporting H. R. 3203. The House agriculture committee has passed a resolution requesting the ICC to postpone the effective date of its order (now designated as September 1) until after Congress completes action on this legislation.

Customs simplification. A proposal to simplify customs procedures including one proposal to raise the duty-free limit of this provision. This bill passed Congress, but only after the duty-free limit proposal was dropped. The present measure retains the \$1 duty-free limit.

Postal rates; reorganization pro-

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55-gal. drum...\$77.00 30-gal. drum...\$45.00
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PEEKSKILL NURSERY SHRUB OAK, N. Y.

posal to simplify customs procedures passed Congress and will require all government departments, agencies, establishments and corporations to reimburse the Post Office Department from their regular appropriations the costs of handling penalty mail. Savings to the post office are estimated to be \$36,000,000. The reorganization proposal was approved in effect by its not being disapproved. It will require airmail subsidies to be charged against the civil aeronautics board instead of the Post Office Department, resulting in savings amounting to \$80,000,000. The bill for raising general postal rates will be considered in the next session of Congress. No consideration of this proposal has been made in the Senate, and hearings in the House revealed substantial opposition to it. Parcel-post rates were increased an average of 36 per cent, effective October 1, 1953. This should increase post-office revenue by \$140,000,000.

Quarantine amendments. Amendments to regulations of quarantine 37 relating to "peat moss balls" are still pending in the agriculture department, and no action can be expected until after a meeting of the National Plant Board scheduled for September 23 to 25, 1953. Other administrative amendments to the quarantine act are also pending. No legislation has yet been introduced to amend the plant quarantine act of 1912 as proposed by the A. A. N.

Mexican farm labor law. This was passed, and the present provisions of the act will be in effect until December 31, 1955.

Patent law amendments. This bill proposes only to reaffirm the original intent of Congress as to the possibility of patenting chance seedlings, which has been questioned by the patent office. The A. A. N. has been advised that a favorable report has been made by the U. S. D. A. Hearings on this are expected to be held in the next session of Congress.

FREIGHT RAISE EXTENDED

The 15 per cent increase in freight rates that became effective in April, 1952, and that was due to expire February 28, 1954, was extended until December 31, 1955, by a recent action of the interstate commerce commission. The railroads had asked that these raises be made permanent. The commission refused, but continued them on a temporary basis in the nature of a 15 per cent surcharge.



Travel LIGHT . . . Arrive SAFE!

For shipping, sturdy-rooted Monrovia Nursery ornamentals are carefully transferred from their growing pots into easy-to-handle, durable paper containers. These are packed into feather-weight safety cartons that keep freight costs at a minimum while affording the plants the utmost protection. Your order of MN Liners arrives in perfect condition, "rarin' to grow"! Here are a few current liner leaders from our wide selection — largest in the country — of **pot-grown** ornamentals:

ALL PRICES PER 100, 2 1/4" POT SIZE — MIN. ORDER 25 PER VARIETY

Berberis thunbergii atropurpurea	\$15.00
Buxus harlandi	15.00
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Ilex cornuta burfordi	17.50
Juniperus chin. pfitzeriana	17.50
Juniperus chin. torulosa	25.00
Libocedrus decurrens	17.50
Pinus mugo mughus	20.00
Pinus sylvestris	15.00
Thuja occidentalis pyramidalis	17.50
Thuja orientalis aurea nana	20.00
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Coming Events

MEETING CALENDAR

September 3 and 4, Kansas Association of Nurserymen, Allis hotel, Wichita.

September 10, Western New York Nurserymen's Association picnic, Buffalo Automobile club, Clarence, N. Y.

September 10 and 11, Oregon Association of Nurserymen, Multnomah hotel, Portland, Ore.

September 10 to 12, fall meeting of the American Rose Society, Neil House, Columbus, O.

September 13 to 18, annual conference, American Institute of Park Executives, Shirley-Savoy hotel, Denver, Colo.

September 15 to 17, California Association of Nurserymen, Hobergs resort, Hobergs, Calif.

October 2 to 4, 1953 Texas rose festival, Tyler.

October 3 to 5, trade meeting of the Florida Nurserymen and Growers Association, Haven hotel, Winter Haven, Fla.

October 6 and 7, 12th short course on roadside development, Ohio department of highways, Columbus.

December 2 to 4, Wisconsin Nurserymen's Association, Hotel Schroeder, Milwaukee.

KANSAS GROUP TO MEET

The Kansas Association of Nurserymen will hold its summer meeting September 3 and 4, at the Allis hotel, Wichita.

WEST NEW YORK PICNIC

The annual picnic of the Western New York Nurserymen's Association will be held Thursday, September 10, at the Buffalo Automobile club, Clarence, N. Y.

OREGON CONVENTION

The Oregon Association of Nurserymen will hold its annual convention September 10 and 11 at the Multnomah hotel, Portland, Ore.

CALIFORNIA CONVENTION

All the facilities offered by Hobergs resort, Hobergs, Calif., will be turned over to the California Association of Nurserymen when the group holds its annual convention, September 15 to 17.

The opening of the convention will be preceded by a meeting of the state board of directors on Monday, September 14. The general business session that opens the first day of the convention will feature

addresses by Jack Evans, Evans & Reeves Nurseries, Los Angeles, the retiring president of the C. A. N., and Elmer Merz, the group's executive secretary. Nominations will be entertained for new officers, and this session will also hear an address by John D. Siebenthaler, president of the American Association of Nurserymen.

Luncheon that day will feature a talk by Lieut. Gov. Goodwin J. Knight, of California. The afternoon session will be devoted to meetings of special groups within the association — retailers, wholesalers, landscape men and chapter secretaries.

Wednesday has been designated "play day" and will include the annual baseball game between teams from northern and southern California. A cocktail party followed by an outdoor barbecue will terminate the day's activities.

AMERICAN NURSERYMAN

The Thursday morning business session will include a speaker, Dr. Joseph Howland, garden editor of House Beautiful magazine, and a panel discussion on Tuesday afternoon's group meetings. Roy Rosenberg, editor and publisher of the Sacramento Union and a popular speaker in California, will address the group during luncheon.

Another business session is scheduled for Thursday afternoon, when committee reports will be heard and the new officers elected, and the president's banquet will highlight the evening.

The resort offers a wide choice of pastimes for the off-hours of the convention, including swimming, tennis, badminton, riding and hiking. In addition, there will be outdoor dancing each night during the convention.

TEXAS ROSE FESTIVAL

A new flower center building overlooking the Municipal rose garden at Tyler, Tex., will house the 16th annual Texas rose festival's rose

LANDSCAPE MATERIAL

Fall, 1953 — Spring, 1954

Red Pine, 3 to 9 ft., sheared, bushy.

White-flowering Dogwood, 6 to 9 ft. or larger to specifications, well-berried for fall.

Rhododendron Maximum, 18 to 24 ins. and 24 to 30 ins.

American Arborvitae, 6 to 10 ft., for screening.

Pin Oak, 3 to 4-in. caliper, spaced 8 by 8 ft.

American White Birch, 7 to 12 ft., single or multiple stem.

Taxus Cuspidata, 15 to 18 ins.

Norway Spruce, 2 to 3 ft. and 3 to 4 ft.

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EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

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Seedlings — Transplants
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show, to be held from October 1 to 4.

The building is under construction this summer and will be formally dedicated by Texas' Gov. Allan Shivers on the day of the show's opening. Picture windows of the building, which is adjoined by a greenhouse, overlook the city's Municipal rose garden, with its 10,000 rosebushes.

Theme of this year's floral pageant is "A Fantasy of Floral Beauty," and for four days the city will be festooned with roses and entertained with fiestas, rose balls, coronations and parades.

Festivities will begin with the crowning of the queen on Thursday evening, October 1, in the Civic auditorium. The coronation will be repeated Friday night. Friday morning free bus tours of the rose fields around Tyler will begin and continue at hourly intervals through the three days of festivities. At noon Friday, a nationally known authority on flowers will address the women's luncheon, and the men will hear an official of President Eisenhower's cabinet. Later in the afternoon the queen's tea will be held, with the queen's ball scheduled for 10 p. m.

Saturday morning the traditional rose parade will be held, stretching over a 3-mile route and including 25 rose-covered floats. In the afternoon a football game between two college teams is scheduled to be played in the stadium. The evening festivities will be held in the stadium, and the final event is the rose ball.

The rose show will continue through Sunday, and vesper services that afternoon will bring the festival to an end. Plans call for use of over 1,000,000 rose blooms in the mass displays at the rose show and 500,000 on rose-covered floats.

FLORIDA TRADE MEETING

The Florida Nurserymen and Growers Association trade meeting will be held October 3 to 5 at the Haven hotel, Winter Haven, Fla. The meeting will feature displays of plants and allied lines of merchandise by nurserymen and manufacturers.

WISCONSIN CONVENTION

The Wisconsin Nurserymen's Association will hold its 37th annual convention and its second annual short course December 2 to 4, at the Hotel Schroeder, Milwaukee. The short course, which proved so successful a year ago, is scheduled for the first day of the convention.

The association's convention falls

PEONIES

Standard 3 to 5-eye divisions from young plants not over three years old. Shipments begin early September.

	Per 10	Per 100
Albert Crousse. (8.6) Fresh salmon-pink. Large, fragrant, late.	\$4.50	\$40.00
Baroness Schroeder. (8.0) Flesh-pink, changing to white with creamy center. Midseason.	5.00	45.00
Duchess de Nemours. (8.1) Sulphur-white fading to pure white. Cup-shaped. Midseason.	4.50	40.00
Edulis Superba. (7.6) Very double, very early, medium size. Clear, deep pink blooms; tall plants. Desirable for cut flowers.	3.50	30.00
Felix Crousse. (8.4) Blooms late midseason. Large double blooms of bright ruby-red.	4.00	35.00
Festiva Maxima. (9.3) Very large, globular, double white flowers with flecks of crimson on center petals. Early bloomer. Very popular.	4.50	40.00
Fontenelle. Large dark red blooms in midseason; excellent for cutting.	4.50	40.00
Frances Willard. (9.1) Blush-white changing to pure white, occasional carmine fleck. Semirose-type, free-blooming. Late midseason.	5.00	45.00
Mary Brand. (8.7) Large, rose-type blooms of dark clear crimson. Fragrant, free-flowering, strong stems. Good both as a cut flower and garden decoration; midseason.	5.50	50.00
Mikado. (8.6) One of the best Japanese-type reds. Crimson guards surround the yellow stamens which are stained rose-red and tipped buff. Midseason.	6.50	60.00
Mme. Emile Galle. (8.5) Soft lilac-pink, yellow-white center changing to cream.	5.50	50.00
Mme. Jules Dessert. (9.4) White petals shaded with buff and salmon tints. Late midseason.	6.50	60.00
Monsieur Jules Elie. (9.2) Very large double blooms of light rose-pink borne on tall stems. Moderately fragrant, blooms early. Most effective as cut flowers.	5.00	45.00
Myrtle Gentry. (9.1) Beautiful light pink. Perfect rose-type bloom with tints of flesh and salmon. Late-flowering.	8.00	75.00
Reine Hortense. (8.7) Large, flat, compact flower of uniform light shell-pink, center flecked with crimson. Semirose-type, very fragrant; midseason.	4.00	35.00
Sarah Bernhardt. (9.0) Uniform rose with silvery tips to petals. Late-flowering, semirose-type, fragrant; late.	5.00	45.00
Solange. (9.0) Delicate lilac-white opening to salmon at the center. Heart of deep orange-salmon. Large, compact rose-type. Late.	6.50	60.00
Walter Faxon. (9.3) Uniform bright rose, deepening toward center. Globular semirose-type; midseason.	5.50	50.00

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OTTAWA, KAN.

EVERGREEN TIME

Fall planting time is short and very valuable. You can save time and make more money by ordering your ILGENFRITZ EVERGREENS early. You will be sure of the best and will be prepared to handle other stock when it is ready.

Deciduous Stock Scarce

Better order shrubs, fruit trees and shade trees before the limited supply is exhausted.

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MONROE, MICH.

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Evergreens • Shrubs • Shade Trees
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ROMEO, MICHIGAN

Seedlings and Transplants

NEWPORT NURSERY CO.
NEWPORT, MICH.

LINING-OUT EVERGREENS

Fall Delivery

All liners are 5 yrs. old, XX, 3 yrs. in open field beds.
No packing charge.

	Each Per 100	Each Per 1000
<i>Taxus media hicksi</i>		
6 to 9 ins.....	\$0.55	\$0.50
9 to 12 ins.....	.75	...
6 to 9 ins., 4-yr., 2 yrs. in open beds.....	.40	.35
<i>Taxus cuspidata intermedia</i>		
6 to 9 ins.....	.55	.50
<i>Taxus media wardi</i> (similar to nana)		
6 to 9 ins.....	.60	.55
<i>Thuja occidentalis globosa</i>		
9 to 12 ins.....	.45	.40
<i>Thuja occidentalis nigra</i>		
12 to 15 ins.....	.35	.30
15 to 18 ins.....	.55	.50
18 to 24 ins.....	.75	.70
<i>Thuja occidentalis wareana</i>		
9 to 12 ins.....	.45	.40
12 to 15 ins.....	.55	.50
<i>Thuja occidentalis wareana nana</i>		
9 to 12 ins.....	.45	.40
<i>Thuja occidentalis woodwardi</i>		
12 to 15 ins.....	.55	.50

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before the convention of the Minnesota association this year, a departure from custom that was felt advisable because of the nearness to Christmas of the Minnesota meeting. The program committee has contacted several outstanding speakers for the occasion and is constructing a program which should be of great interest.

MEETING POSTPONED

The meeting of the Hortus Alumni Association originally scheduled for August 15 and 16 has been postponed. The new date of the meeting has been set tentatively for some time in October.

NEW ENGLAND SPRING SHOW

"Gardens New and Old" will be the theme of the 1954 New England spring flower show. The show will be held March 14 through 20 in the Mechanics building, Boston, Mass., and will be sponsored by the Massachusetts Horticultural Society.

NEW ZEALAND MEETING

The jubilee conference of the New Zealand Horticultural Trades Association, originally scheduled for the period from January 25 to 29, 1954, has been postponed until the week of March 8 to 12, 1954.

CANADIANS FORM GROUP

A new group of nurserymen was formed recently to cope with the problems of the industry in British Columbia, Canada. Steps leading to its organization were aided by J. H. Eddie, a director of the Canadian Association of Nurserymen and a member of H. M. Eddie & Sons, Ltd., Vancouver, B. C. Nurserymen joining the new association automatically become members of the Canadian Association of Nurserymen.

The following persons are its present officers: President, J. H. Eddie, vice-president, Jack Manten, Manten Nursery, White Rock, and secretary, Lloyd Smith, the Garden Shop, Vancouver. Directors are Dave Hunter, Hunter's Nurseries, Vancouver; Mr. Petty, Rosecroft Nursery, Langley Prairie; Hyland Barnes, Hyland Barnes Nursery, Vancouver; Mr. Hardy, Wayside Gardens, Mission City; Tom Slavin, Ed Brown Florist, Vancouver, and Bob Nicholson, Heatherbell Nursery, White Rock.

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- SHRUBS
- FLOWERING TREES
- SHADE TREES

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RHODODENDRON EXPERT TO VISIT UNITED STATES

Russell Matthews, rhododendron authority of New Plymouth, New Zealand, will visit the United States this month as guest of Dr. A. M. S. Pridham, department of floriculture and ornamental horticulture, Cornell University, Ithaca, N. Y. During his stay he will visit rhododendron growers in the northeast and in Oregon, where the coastal climate closely resembles that of the Pukeiti area of New Zealand.

New Zealand rhododendron enthusiasts have formed the Pukeiti Rhododendron Trust, Inc., to create a national rhododendron arboretum near Mount Egmont in an area well-adapted to growing a wide range of the members of the rhododendron genus.

FURTHER production of an illustrated educational bulletin for consumers on purchasing plants and landscape work was authorized recently by the executive committee of the National Landscape Nurserymen's Association. The bulletin was written by Homer K. Dodge, Landscape Service Co., Framingham, Mass.

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<i>Juniperus Pfitzeriana</i> , 18 to 24 ins.....	\$ 3.50	\$ 3.25
24 to 30 ins.....	4.25	4.00
30 to 36 ins.....	4.75	4.50
<i>Juniperus Virginiana Canaerti</i> , 4 to 5 ft.....	6.50	.....
<i>Juniperus Virginiana Hilli</i> , 3 to 4 ft.....	5.50	.....
<i>Taxus Cuspidata</i> (Spreading), 15 to 18 ins.....	4.50	4.25
18 to 24 ins.....	5.50	5.00
24 to 30 ins.....	6.50	6.00
<i>Taxus Cuspidata Capitata</i> (Upright), 3 to 3 1/2 ft.....	11.00	10.00
3 1/2 to 4 ft.....	13.00	12.50
4 to 4 1/2 ft.....	16.00	15.00
4 1/2 to 5 ft.....	21.00	20.00
<i>Taxus Cuspidata Densiformis</i> (Spreading), 15 to 18 ins.....	4.50	4.25
18 to 24 ins.....	5.50	5.00
24 to 30 ins.....	6.50	6.00
30 to 36 ins.....	8.00	7.50
<i>Taxus Cuspidata Nana</i> (Dwarf Spreader), 12 to 15 ins.....	4.25	4.00
<i>Taxus Cuspidata Nana</i> (Dwarf Spreader), 15 to 18 ins.....	4.75	4.50
<i>Taxus Cuspidata Thayerae</i> (Spreading), 18 to 24 ins.....	5.50	5.00
<i>Taxus Cuspidata Thayerae</i> (Spreading), 24 to 30 ins.....	6.50	6.00
<i>Taxus Media Hatfieldi</i> (Upright), 18 to 24 ins.....	4.75	4.50
24 to 30 ins.....	6.50	6.00
30 to 36 ins.....	8.00	7.50
<i>Taxus Media Hicksi</i> (Upright), 18 to 24 ins.....	6.00	5.50
<i>Taxus Media Hicksi</i> (Upright), 24 to 30 ins.....	6.50	6.00

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Colorado Blue Spruce	Per 100	Per 1000
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4-yr., 8 to 10 ins.	18.00	160.00
6 to 8 ins.	15.00	130.00
4 to 6 ins.	12.00	100.00
Black Hills Spruce		
4-yr., 10 to 12 ins.	20.00	180.00
8 to 10 ins.	15.00	130.00
6 to 8 ins.	12.00	100.00
Norway Spruce		
4-yr., 12 to 15 ins.	15.00	140.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00
White Spruce		
12 to 15 ins.	20.00	180.00
8 to 12 ins.	15.00	100.00
American Arborvitae		
4-yr., 12 to 15 ins.	15.00	140.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00
3-yr. Seedlings		
Colorado Blue Spruce		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00
Norway Spruce		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00
White Spruce		
8 to 10 ins.	4.00	35.00
6 to 8 ins.	3.50	25.00
Black Hills Spruce		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00
Black Spruce		
6 to 8 ins.	3.00	25.00
Dwarf Tyrolean Mugho Pine		
4 ins.	4.00	35.00
Riga Scotch Pine		
8 to 10 ins.	4.00	35.00
6 to 8 ins.	3.50	28.00
Austrian Pine		
6 to 8 ins.	3.50	30.00
Ponderosa Pine		
6 to 8 ins.	3.00	25.00
3-yr. Seedlings		
Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
White Spruce		
2 to 4 ins.	2.50	20.00
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Letters from Readers

NOTES ON DWARF SPRUCE

The article on the giant dwarf Alberta spruce (American Nurseryman, July 1, 1953) interested me greatly, as I was one of the first nurserymen to grow this plant. I believe I was the first to grow it in quantity and get it rather widely introduced; hence, I am possibly guilty of spreading some inaccurate information about it.

When I started growing *Picea glauca conica*, there were in cultivation scarcely more than 100 plants, all well under three feet in height. At that time I did not think to inquire of its discoverer its ultimate height; from some source or other I gathered that its ultimate height was about six feet. That was back about 1917, and, in the absence of information to the contrary, I continued to publish that same information for many years. In fact, our present price list, through error, continues to give that same height limit of six feet.

Not until the early or middle 1930's did I have reason to question it, and for the simple reason that I then had a few dwarf Alberta spruce well over six feet tall.

I then consulted the late Harry Dawson, who was manager of Eastern Nurseries, Holliston, Mass., from whom I had originally bought my propagating stock. Harry was one of that large family of horticulturists, all children of the late Jackson Dawson, onetime superintendent of Arnold Arboretum.

Harry Dawson told me that he, then a youth in his late teens, was with Prof. J. G. Jack, of the Arnold Arboretum, on the trip to the province of Alberta, Canada, in 1904, when the dwarf Alberta spruce was discovered. He stated that he estimated the discovered tree to be about 30 feet tall.

Since height of trees is deceptive, and I find that most of us tend to overestimate the height of trees in the 20 to 30-foot range, I discounted Harry's estimate somewhat. I find, in a catalog I published in 1938, that I then assigned a height of 20 feet and an annual growth rate of three inches.

I have tried to verify Harry Dawson's statement, but without success. Dr. Donald Wyman, of Arnold Arboretum, has checked the arbore-

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Grand Canyon	15.00
Great Lakes	15.00
Lancaster	15.00
Morocco Rose	15.00
Mountain Sky	15.00
Ormohr	15.00
Snow Flurry	15.00
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Wabash	15.00
War Eagle	15.00
Winneshiek	15.00
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tum's records. He says that Professor Jack was credited with the discovery, although he is positive that Alfred Rehder was along on that trip. He has been unable to find any record of the height of the discovered plant.

Unfortunately Professor Jack, Mr. Rehder and all the Dawsons of Harry's generation are dead.

Apparently the plants originally grown at the arboretum and at Eastern Nurseries were from cuttings brought back by Professor Jack. Whether the plant has ever been rediscovered in the wild, I have no knowledge. Only by rediscovery, apparently, could the facts be established.

At present there remain at Arnold Arboretum two of the plants brought back by Professor Jack, which are now a full eight feet tall. On land that used to be a part of my nursery, a grown-together clump of three dwarf Alberta spruce still remains, ranging in height from seven and one-half to eight feet. I doubt if the arboretum plants ever received much fertilizer. I know that the clump mentioned above has had no feeding for at least 25 years, although it grows in extremely poor, dry, sandy soil. Mr. King mentioned in the July 1 article that his large

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Taxus Capitata, 4 to 5 ft., 5 to 6 ft. and 6 to 7 ft.

Taxus Hicksi, 4 to 5 ft. and 5 to 6 ft.

Taxus Hatfieldi, 4 to 5 ft.

Taxus Vermeulen, 4 to 5 ft.

1000 **Euonymus Vegetus**, 18 to 24 ins.

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plants have had only slight feeding in 25 years.

I have no doubt that, had we all fed our respective groups of dwarf Alberta spruce moderately but with fair regularity, they would now be nearer 12 to 16 feet tall. Since nature in the wild affords application of some organic fertilizer each year, because, in the wild, plants grow mostly where conditions of soil and climate are favorable and further considering that spruce trees are fairly long lived, I can well believe that the maximum height of the dwarf Alberta spruce is much greater than is usually believed.

Give or take a few feet, I personally believe that Harry Dawson's estimate of 30 feet was correct.

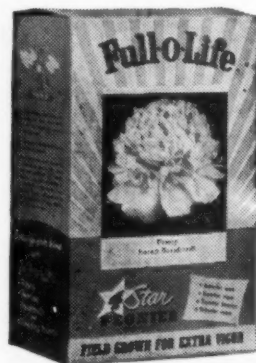
In spite of that, I consider *Picea glauca conica* a true dwarf—the element of time being an important factor in classifying plants.

Richard M. Wyman, Sr.
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Framingham, Mass.

COMMEMORATE NEW ELM

A venture almost unique in the nursery business was commemorated August 22 during public ceremonies at Normal, Ill., when a bronze plaque bearing the following inscription was affixed to a towering columnar elm: "The original Augustine ascending elm. A mutant of American elm planted as a 5-year sapling in 1927. Archie Augustine began the propagation of all the Augustine ascending elms in the United States with wood from this tree."

The late Mr. Augustine, one of the founders and presidents of the Illinois State Nurseryman's Association and in 1929-30 president of the American Association of Nurserymen, was thus honored as the person who first recognized the desirability of the fastigiated elm and conceived of creating a whole new species of elm by propagating from wood of the original free mutation at Normal. The Augustine Ascending Elm Re-



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Colorado Blue Shiners, up to 6 ft.
Concolor Fir, up to 2½ ft.
White Spruce, up to 6 ft.
Shade Trees, up to 3 ins.

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search Association, which he founded to identify, test, propagate and distribute the new tree, has during its six years of existence placed more than 13,000 scions in parks and cemeteries, on golf courses and campuses and along streets and avenues all over the country, besides the 34,000 scions in nurseries—all stemming ultimately from the original tree honored at Normal.

The new variety of elm is noted for its neat rising form which, besides the beauty it affords, makes its resistance to ice and wind much greater than that of the typical pendant American elm and reduces the necessity of trimming and care. It has been found particularly suited for row-planting because each tree shows the identical columnar form of the parent tree.

J. C. W.

NEW DWARF FRUITS

Successful dwarfing of apples and pears has led to tests with other fruits, with the result that horticulturists now have a suitable rootstock for dwarfing prunes, plums, and peaches.

The rootstock that has proved most satisfactory in extensive tests is the so-called western sand cherry, according to Prof. Karl D. Brase, of the New York state agricultural experiment station, Geneva. "The western sand cherry has many characteristics that make it a possible dwarfing rootstock," Professor Brase said. "It is a dwarf plant itself. It is hardy. It can be grown easily from seeds. Also, the seedlings sucker freely thus making it possible to multiply individual seedlings and establish clonal selections for experimental studies."

The western sand cherry matures earlier than most rootstocks, hence budding operations in the station begin in August with this stock.

Beauty, Pearl, and Stanley gave the best bud take among the prunes and plums in trials at Geneva, with Italian prune and Pacific plum next in order. Elberta, Hale Haven, and Golden Jubilee had perfect bud takes among the peaches.

Dwarf plum and peach varieties now six years of age in the station orchards are five to six feet tall. They started to bear normal fruits the second to third year after transplanting. In their seventh year in the orchard peaches have produced one to two 12-quart baskets of fruit per tree. Stanley produced a full 12-quart basket per tree last year. Italian prune and Beauty plum produced half a basket on the average, while Pacific gave about two pounds to the tree in 1952 and Pearl only a few fruits.

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Black Hills Spruce, XX, 12 to 15 ins.	\$50.00	
XX, 9 to 12 ins.	30.00	
X, 6 to 9 ins.	15.00	
Colorado Blue Spruce, XX, 12 to 15 ins.	55.00	
XX, 9 to 12 ins.	35.00	
X, 6 to 9 ins.	16.00	
2-0, 4 to 6 ins.	7.50	\$ 32.00
2-0, 2 to 4 ins.	5.00	20.00
Scotch Pine, XX, 18 to 24 ins.	50.00	
XX, 12 to 18 ins.	30.00	
2-2, 6 to 12 ins.	12.00	100.00
Austrian Pine, 2-0, 2 to 5 ins.	6.00	25.00
Douglas Fir (Pseudotsuga Taxifolia Glauca), 2-0, 3 to 8 ins.	7.50	28.00
Douglas Fir (Snowy Mountain), X, 4 to 10 ins.	15.00	125.00

Scotch Pine Christmas Tree Stock

	Per 100	Per 1000	Per 1000 (in lots of 100,000)	Per 1000 (in lots of 100,000)
Riga Scotch Pine, 2-1, 3 to 8 ins.	\$10.00	\$45.00	\$40.00	
2-0, 8 to 12 ins.	8.00	42.50	38.50	
2-0, 3 1/2 to 8 ins.	7.50	26.00	24.00	\$22.50
2-0, 2 to 3 1/2 ins.	4.00	16.00	15.00	14.00
Scotch Pine, 2-0, 3 to 6 ins.	5.00	22.00	20.00	

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18 to 24 ins.	2.75
24 to 30 ins.	3.50
30 to 36 ins.	4.00
Savin Juniper	
15 to 18 ins.	2.00
18 to 24 ins.	2.50
Golden Pfitzer Juniper	
30 to 36 ins.	4.50
Irish Juniper	
3 to 4 ft.	2.50
4 to 5 ft.	3.00
Spiny Greek Juniper	
24 to 30 ins.	2.25
30 to 36 ins.	2.75
Burk Juniper	
3 to 4 ft.	5.00
4 to 4 1/2 ft.	5.50
Chinese Columnar Juniper	
4 1/2 to 5 ft.	6.00
6 to 8 ft.	8.50
Dundee Juniper	
3 to 4 ft.	5.50
4 to 5 ft.	6.25
Keteleer Juniper	
4 to 4 1/2 ft.	5.50
4 1/2 to 5 ft.	6.00
Canaert Juniper	
4 to 4 1/2 ft.	6.00
4 1/2 to 5 ft.	6.50
Pyramidal Arborvitae	
2 to 3 ft.	3.00
3 to 4 ft.	3.50
4 to 4 1/2 ft.	4.50
Baker Arborvitae	
24 to 30 ins.	2.50
30 to 36 ins.	3.00
Goldspire Arborvitae	
24 to 30 ins.	3.00
30 to 36 ins.	3.50
Berkmans Golden Arborvitae	
15 to 18 ins.	1.75
18 to 24 ins.	2.25
White Pine	
4 to 5 ft.	5.50
Mugho Pine	
15 to 18 ins.	4.00
18 to 24 ins.	4.50
Cornus Florida	
18 to 24 ins., B.R.	1.00
2 to 3 ft., B.R.	1.25
3 to 4 ft., B.R.	3.25
4 to 5 ft., B.R.	4.25
Cornus Florida Rubra	
18 to 24 ins., B.R.	2.50
2 to 3 ft., B.R.	3.25
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Plant Patents

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1175. Azalea plant. By Lenard L. Brooks, Modesto, Calif. A new and distinct variety of azalea plant of the Kurume class, comprised of a cross between Kurume azalea, Hexe, and the Belgian Indica azalea, William Van Orange, and characterized by its extremely free-branching spreading habit; by being less upright than the Hexe azalea but producing more and larger flowers; by flowering evenly over the entire plant; by ruffled hose-in-hose flowers of near cardinal red, with an undertone of orange, which tend to droop by reason of such spreading habit of the plant; by its smaller leaves than the Hexe azalea; by its ease of reproduction on its own roots; by its excellence as a greenhouse forcing and garden variety, and by its rapid growth from cutting to flowering plant.

No. 1176. Rose plant. By Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by having few to no prickles on its long flowering stems, on which the blooms are usually borne singly; by the better than average lasting quality of its blooms; by the semidouble, initially high-centered form of the blooms, becoming saucer-shaped with maturity; by the orange-red general tonality of the petals of the blooms; by the wider and longer than average size and the better than average substance of the petals, and by the prominent veins showing in the petals throughout the life of the blooms.

No. 1177. Chrysanthemum plant. Emil Prushek, Niles, Mich., assignor to R. M. Kellogg Co., Three Rivers, Mich. A new and distinct variety of chrysanthemum, characterized as to novelty by the crimson color of its blooms; by the fully double arrangement of its petals; by the dwarfier and more compact and floriferous habit of growth; by its earlier and longer blooming period, and by its characteristic of continuous production of successive blooms, with fresh flowers rising above and covering the earlier fading ones.

No. 1178. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty particularly by its vigorous habit of growth, by the dark green, large and semiglossy foliage produced in abundance on a compact bush, by the intensity and brilliance of the red color of its blooms, by the abundance and substantially continuous profusion of its blooms throughout the growing season and by its longer than average peduncle and flowering stem for a variety of this type.

No. 1179. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the hybrid polyantha class, characterized as to novelty particularly by its vigorous, upright-spreading, well-branched habit of

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growth; its abundance of dull, yellow-green foliage; its production of massive clusters of blooms; the fading reaction of its blooms from a dark pink progressively through lighter shades of pink to a light pinkish white in the mature or aging flowers; the mass effect of the clusters when viewed as a whole, exhibiting the various stages of flower development from long pointed, dark pink bud to near white aging bloom, and the well-lasting quality of the blooms under extreme temperature conditions.

No. 1180. Carnation plant. By Russell Engle, Kokomo, Ind., assignor to Tom Knipe, Florist, Kokomo, a partnership. A new and distinct variety of carnation plant of the greenhouse type, characterized as to novelty particularly by its heavy foliage and relatively long leaves; relatively large and strong stems; relatively large flowers; similarity in color of its large flowers to those of its parent, Sarah Jane Knipe (plant patent No. 909); improved substance of its flowers, and by its growth and ease of propagation.

No. 1181. Blueberry plant. By Herbert E. Drew, Thurston county, Washington. Alberta M. Drew, executrix of said Herbert E. Drew, deceased, assignor to herself individually. A new and distinct variety of blueberry plant resembling most closely the Rancocas variety in the physical characteristics of the plant, leaf and fruit, but characterized by the virtually simultaneous ripening of all berries on the bush and the retention of all fruits in prime condition after ripening for a period approaching two weeks.

No. 1182. Rose plant. By Josephine D. Brownell, Little Compton, R. I. A new and distinct variety of rose plant, characterized by its bloom and color pattern, form and color and its wichuraiana traits.

No. 1183. Strawberry plant. By Frank J. Keplinger, Farwell, Mich., assignor to Emlog Nurseries, Inc., Stevensville, and Carl A. Stahelin, Bridgman, jointly. A new and distinct variety of strawberry plant, characterized by the brilliant red color and larger size of its fruit; its greater fruit productivity and higher fruit production continuity from spring until frost; its higher plant multiplication capacity; its ability to thrive under adverse weather and soil conditions; the short spacing of plants on and the red color of its runner stems, and its dark green, glossy foliage.

No. 1184. Pear tree. By W. H. Eller, Yakima, Wash. A new and distinct variety of pear tree, characterized as to novelty by its early blooming season, large healthy spur growth and light sucker growth; by its early and heavy bearing habit, resistant to frost and blight; by the excellent texture of the fruit, and by the superior qualities of the fruit for storage, canning and eating purposes.

No. 1185. Rose plant. By O. L. Weeks, Chino, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the climbing hybrid tea class, characterized as to novelty particularly by its general similarity to its parent, Sutter's Gold (plant patent No. 885), but essentially distinguished therefrom by its vigorous growing habit as characterized by its strong, climbing canes, by its habit of producing many more flowers in the spring than can be found at any one time on plants of its parent variety and by its intermittent flowering habit during the remainder of the growing season.

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24 to 30 ins.	4.75	24 to 30 ins.	3.50
		30 to 36 ins.	4.25
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18 to 24 ins.	4.00	18 to 24 ins.	3.00
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Taxus Hatfieldi		Von Ehron Pfitzer Juniper	
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24 to 30 ins.	4.75	30 to 36 ins.	4.25
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18 to 24 ins.	3.75	18 to 24 ins.	2.75
Taxus Adamsi Columnaris		24 to 30 ins.	3.50
18 to 24 ins.	3.75	30 to 36 ins.	4.25
24 to 30 ins.	4.50		
Taxus Intermedia		Irish Juniper	
15 to 18 ins.	3.00	2 1/2 to 3 ft.	2.00
18 to 24 ins.	4.00	3 to 4 ft.	2.50
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Book Reviews

PLANTING HOME GROUNDS

The third volume in Henry B. Aul's home landscaping trilogy has been published by Sheridan House, Inc., New York, and is priced at \$3.50. The 383-page book, entitled "How to Plant Your Home Ground," completes definitively the work begun in the other two volumes—"How to Beautify and Improve Your Home Grounds" and "How to Build Garden Structures." More than 150 diagrams, sketches and plans illustrate the ways and means to garden success. Full, easy-to-follow information on what to plant, how to plant and where to plant around the house, in the garden and on home grounds in general are set out in this volume. The author suggests thousands of ways to decorate the land surrounding the home, with trees, shrubs, ground covers, vines, annuals, perennials, bulbs and roses. Complete cultural information is included in the indexed volume.

GROUND'S MAINTENANCE

The Tennessee Valley Authority recently published the "Handbook on Public Grounds Maintenance," a volume of 495 pages, including illustrations and charts, which sells for \$5 per copy. Considerable space is devoted to the seeding and care of lawns, planting and care of trees and shrubs, weed control, pest control, soil erosion and control, etc. Printing is done by offset, and the book measures 8x10½ inches.

A limited supply is available, and checks should be made payable to the Treasurer, Tennessee Valley Authority, and sent to Old Post Office building, Knoxville, Tenn.

CHEMISTRY IN GARDENING

Containing up-to-date information on the use of the newer chemicals in gardening and agriculture, "Modern Gardening," by Dr. P. P. Pirone, just published by Simon & Schuster, at \$3.50, is a valuable reference book for commercial grower and amateur alike. Briefly reviewing some of the fundamentals of plant growing, the author describes what the new "wonder" chemicals will do and what they cannot be expected to accomplish. Foliage feeding, soil conditioning and weed killing with chemicals are discussed. Space is given to a discussion of insecticides and fertilizers, especially of the new-

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Globe Yews

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Hicks' Yews

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Capitata Yews

4½ to 8 ft., heavy.
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er types. Tabular data on the various manufacturers' products, as well as specific applications to different crops, add to its practical value.

The last third of the volume answers 500 questions on the various phases of gardening, grouped for easy reference.

Since 1947 the author has been plant pathologist at the New York Botanical Garden, before that occupying the same position at Rutgers University, where his work brought him into close contact with the nurserymen of the state, so that he served the state association as secretary for several years. He is author of "Maintenance of Shade and Ornamental Trees," standard authority on the subject among commercial arborists and colleges alike.

This is a volume needed on every grower's reference shelf, to give him useful information on the latest chemical aids to his production.

"PAGEANT OF THE ROSE"

Jean Gordon, well-known authority on rose lore, devoted 10 years of research to the preparation of "Pageant of the Rose," published recently by Studio Publications, Inc., in association with Thomas Y. Crowell Co., New York. The result is the most comprehensive book available on the role the rose has played in history, religion and the arts, as well as its uses in cooking, healing and cosmetics. The volume sells at \$5.

That the rose has figured in fact and legend from earliest times is well-documented in this book. Among the illustrations that abound in the 232-page volume are photographs of a rose fossil, estimated to be 35,000,000 years old, and one of a 1,000-year-old rosebush, still blooming at a German cathedral. An excellent bibliography and a good index complete this handsome book.

WILD FLOWERS

"Wild Flower Studies," published by Studio Publications, Inc., in association with Thomas Y. Crowell Co., New York, and selling for \$5.50, contains 45 pages of plant portraits of British wild flowers in color, painted from life by Bessie D. Inglis, and about 75 pages of line drawings, accompanied by descriptive material, by the same artist.

The book also contains a section on the structure of plants and one on the families of wild plants shown in the book. The book was first published in Great Britain in 1951.

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6 to 12 ins., 1-yr., C.....	.65	6.00	55.00
12 to 18 ins., 1-yr., C.....	.85	8.00	75.00
12 to 18 ins., 2-yr., well-br.....	1.00	9.50	90.00
18 to 24 ins., 2-yr., well-br.....	2.50	20.00	150.00
2 to 3 ft., 2-yr., well-br.....	3.00	25.00
Spiraea Vanhouttei (Van Houtte Spiraea)			
6 to 12 ins., 1-yr., C.....	.40	3.50	30.00
12 to 18 ins., 1-yr., C.....	.50	4.50	40.00
12 to 18 ins., hedging.....	.65	6.00	55.00
18 to 24 ins., 2-yr., well-br.....	1.70	16.00	150.00
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4 to 5 ft., 3-yr., well-br.....	11.00	100.00
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32 to 34 ins. x 30 to 32 ins.....	20.00
34 to 36 ins. x 32 to 34 ins.....	25.00
36 to 38 ins. x 34 to 36 ins.....	30.00
38 to 40 ins. x 36 to 38 ins.....	35.00
40 to 42 ins. x 38 to 40 ins.....	40.00

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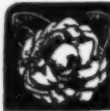
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AMERICAN NURSERYMAN

NEW JERSEY MEETING

[Continued from page 9]

ditches. Klaas de Wilde was quick to point out, however, that this is not considered a 10 per cent loss in area. He told us that all diversion terraces are now maintained in a clover, alfalfa and timothy sod that must be mowed twice a year. He explained that this is not entirely lost to cultivation, because the hay collected is fed to horses as well as being used for a mulch. (They use one dozen horses on the grounds.) No effort is made to grow nursery stock on any of the terraces, according to Mr. de Wilde. A fine crop of grass and legumes is produced by liming and fertilizing.

The blocks of taxus species and varieties were unbelievably uniform and in perfect health. Every plant on the property is root-pruned and transplanted several times before being sold.

To persons outside the state it might have to be explained that the nurserymen from the northern part of the state look upon the southern part of the state as nothing more than one big patch of sand. This opinion is gathered from the fact that one of New Jersey's greatest businesses is the seashore trade that flourishes along more than 100 miles of the Jersey coast. Also, there is a large patch in the south-central part of the state, known as the Pine Barrens, which would give almost anyone the impression that the land is worthless. However, the nurserymen certainly had their eyes opened when they saw this perfect plant growth throughout the entire property. In fact, because of the contouring of the property, this firm seems to have less trouble with droughts than do the nurserymen in the northern part of the state, where the soil is heavier.

Cultivating Equipment Mechanized

Most of the cultivating equipment is mechanized. The horses are used on the short rows that are created by a necessary contouring of the plant rows. Mr. de Wilde informed his guests that there are about 800 acres in all in the nurseries; 500 are in cultivation while 300 are being rested. All plants are planted on 3-foot square spacing. This allows check-row cultivation.

Although crop rotation, fertilization and some contouring were practiced earlier, still more improved methods had to be employed. As a result of intensive study, work and record-keeping, the following is now in practice: If the nursery crop is

removed in May or June, soybeans are planted, followed by either rye, barley or wheat with timothy. Clover seeds are then sown in the early spring, when the soil is wet. The green crop is clipped. The timothy and clover are cut twice a year, and the residue is left on the ground to be incorporated in the soil.

The nurseries today utilize virtually all the water that falls on the soil. Only during long, hard rains does any water leave by way of the terraces and waterways. Retaining the moisture has produced important effects that are readily noticeable to nursery personnel. There is no loss of soil from erosion. The soil is continually being improved by fertilization, cover crops and a better rotation. The roots of the plants that have been grown on the contour are larger and better developed than the ones that used to be produced before soil and moisture practices were started. Salable plants can be grown in five years rather than the six formerly required.

A number of other benefits have accrued as a direct result of the utilization of good soil management practices. These benefits far overshadow any difficulties that have been encountered in adopting a good soil management program. As proof of this, the de Wildes have acquired four more farms, totaling about 500 additional acres. As soon as the farms were obtained they were laid out for stabilization.

In July, 1952, the New Jersey chapter of the Soil Conservation Society of America toured the Perkins-de Wilde Nurseries and saw one of the best stabilization operations and one of the prettiest landscape jobs in this country. Klaas de Wilde is extremely proud of what they have accomplished and expresses himself in the terms of a laborer who worked for them: "She ain't pretty for nice but she's hell-damn for strong!" The technicians involved on this project now firmly believe that if a "landscaping" job of this type can be done for the nurserymen, it can be done for any farmer or grower in New Jersey, or any other state of the Union, for that matter.

Trips to Koster and Seabrook

The two other bus trips that were available took the members to Koster Nursery and Seabrook Farms, near Bridgeton, N. J.

The story of the wonderful propagation work being done by James Wells, of Koster Nursery, has been presented over many months in this magazine; therefore, it would be du-

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(In bags of 100)	Per 1000 Top size 13 cm. and up
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(In bags of 100)	Per 1000 Top size 13 cm. and up
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(In bags of 100)	Per 1000 Top size 13 cm. and up
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Elmus, Carmine, white edge	48.00
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(In bags of 100)	Per 1000 Top size 13 cm. and up
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(In bags of 100)	Per 1000 Top size 13 cm. and up
20 Mixed Darwin Tulips in box	
Minimum 60 boxes per case	\$47.50

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(In bags of 100)	Per 1000 Top size 13 cm. and up
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Mrs. E. H. Krelage, Creamy-white	80.00
Imperator, Pure white	90.00
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CROCUS	
(In bags of 100)	Per 1000 Top size 13 cm. and up
Purple Grandiflorus, Large purple	\$28.00 \$22.00
Mont Blanc, Pure white	28.00 22.00
King of the Striped, Striped	35.00 28.00
Mammoth Yellow	40.00 35.00
Mixture All Colors	32.00 26.00

MUSCARI (Grape Hyacinths)	
(In bags of 100)	Per 1000 Top size 13 cm. and up
Top size, per 1000	\$16.00

AMERICAN-GROWN BULBS	
(In bags of 100)	Per 1000 Top size 13 cm. and up
King Alfred Daffodils, D.N. No. 1	\$95.00
10 to 11 9 to 10 8 to 9	cm. cm. cm.
Wedgwood Iris	\$50.00 \$40.00 \$20.00

DUTCH IRIS	
(In bags of 100)	Per 1000 Top size 13 cm. and up
10 to 11 9 to 10 8 to 9	cm. cm. cm.
Wedgwood, Light blue	\$30.00 \$22.00 \$12.00
8 to 9 7 to 8 6 to 7	cm. cm. cm.
Golden Harvest	
Yellow	\$22.00 \$15.00 \$ 9.00
H. C. Van Vliet, Blue	22.00 15.00 9.00
Imperator, Deep blue	22.00 15.00 9.00
White Excelsior	
White	24.00 16.00 10.00
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plication to report what was seen at this establishment. However, it might be interesting to many readers, especially those who have ever eaten any of Seabrook's frozen foods, to offer a brief description of what has happened at these farms. Obviously frozen foods have little to do with the nursery industry, but the growing of the plants for this tremendous industry is somewhat similar to the growing of nursery stock. Also, the history of Seabrook Farms more or less parallels the story of almost every large nursery in this country. It might also serve to help some of the nurserymen throughout the nation decide on whether they should expand beyond their present limits or not.

To tell the story briefly one might quote from the first page of a brochure handed out at Seabrook Farms. It is entitled "From a Rural Mail Box to a Farm So Big It Has a Post Office of Its Own." It reads:

"Few American success stories are so dramatic as the story of Charles F. Seabrook and the giant farming enterprise he built.

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Each Collection contains 1650 bulbs, as follows:

1000 TULIPS First Size 11 to 12 Centimeters	100 Allbright, bright red.	100 Cordell Hull, red and white.	100 Golden Harvest, clear yellow.
SUGGESTED RETAIL: 7c each	100 Blue Parrot, violet-blue.	100 Dillenberg, salmon-orange.	100 Philip Snowden, rose-pink.
	100 Campfire, blood-red.	100 Fantasy Parrot, pink and green.	100 Queen of Night, deep maroon.
100 HYACINTHS 15 to 16 Centimeters	30 Blue Hyacinths 30 Pink Hyacinths 40 White Hyacinths	SUGGESTED RETAIL: 15c each	
250 CROCUSES—Mixed colors, 7 to 8 centimeters.		RETAIL: 3c each	
250 MUSCARI—Grape Hyacinth, 7 to 8 centimeters.		RETAIL: 2c each	
50 DAFFODILS—King Alfred (yellow trumpet), D.N. No. 2.		RETAIL: 15c each	

TOTAL SUGGESTED RETAIL SELLING PRICE: \$105.00

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surrounding the original homestead stretch 50,000 acres of crops, comprising the world's largest farming-freezing operation. Nearly half of that ground is operated by Seabrook Farms; the remainder by about a thousand independent farmers, who contract to market their produce through Seabrook Farms' tremendous quick-freezing and elaborate distribution system serving 25,000 retail stores up and down the east coast, west to Chicago.

"Where young Charlie Seabrook could walk from the north field to the south pasture in a few minutes, today he can drive for 45 miles and still be on land that belongs to his farms. As a boy, he could climb the tall oak tree by the house and see the limits of the family's ground. Today his sons have to ride an airplane if they want to see the borders of their domain.

"Most visitors to Seabrook Farms are first impressed by the magnitude of things: That 90,000,000 pounds of fruits and vegetables a season are packed by Seabrook Farms; that these 50,000 crop acres produce 15 per cent of America's entire output of frozen vegetables, processed right on the farm in the world's largest freezing plant—itsself covering 23 acres; that 3,500 people are employed

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during peak season; that 500 trucks and machines, 150 trailers and eight biplanes are required; that an average of 5,000,000 gallons of water are used daily in the peak season; that 2,000,000 pounds of seeds are needed each year.

"Amazed by such titanic totals, they later begin to appreciate the extraordinary attention to detail and quality control which make these the only truck farms in the world completely integrated from the planting of the seed through every phase to the final processing and packaging."

A highly mechanized type of farming enables Seabrook Farms to boast that they can process plants "from field to package—in less than two hours!"

Since we were speaking of water conservation concerning the Perkins-de Wilde Nurseries, it must be interesting to note that Seabrook Farms has what they call "the wettest jungle in the world." This is a 54-acre scrub oak and pine area where the waste water from the farms' freezing plant is sprayed. This, of course, helps to maintain the water table at its normal depth.

"Hypodermic Needle" Watering

To return to the Perkins-de Wilde Nurseries, it must be said that the most interesting piece of equipment used on the Perkins-de Wilde property is the "hypodermic needle" system of watering plants for shipment. A large water tank with a pressure pump on it is towed down the rows, and up to six "needles" can be used at one time, handled by two men. The watering device, which is nothing more than a long, narrow pipe pointed at the end, with small holes close to the tip, is injected into the root area. While water from this needle is saturating the soil under one plant, the second needle is inserted at the next plant in the row and the third one follows the second. After the first one has saturated the root area, it is "leap-frogged" up to the fourth plant, and the "leap-frogging" process continues right down the row. Mr. de Wilde said he could not do without it.

Planting machines, root pruners and other machinery were also included in the equipment display.

At 4:30 in the afternoon the 200 people sat down to one of the finest dinners of roast beef that anyone could ever expect. Locally grown cantaloupe shared the honors with the wonderful beef. Just to make it official, it rained all during the meal to close out another summer meeting of the New Jersey Association of Nurserymen in typical fashion.

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Association of Nurserymen

ELMER J. MERZ, Executive Secretary

TRI-COUNTY MEETING

The July meeting of the Tri-County chapter, California Association of Nurserymen, was held July 24. There were 26 members and guests present.

After an excellent chicken dinner, President Burt Tricks presided over a spirited business meeting. The subject of personal property taxes occupied most of the evening, with most of the members entering into the discussion.

President Tricks urged all members to attend the C. A. N. state convention, at Hobergs, and the chartering of a bus from the Tri-County area was discussed.

S. Paul Reed, C. A. N. state director, discussed certain proposed changes to the association bylaws, and President Tricks appointed him chairman of the committee to study the changes. Walter Knecht and Floyd Dillon were named as committee members.

A letter from Elmer Merz concerning publicity and public relations resulted in Don Dillon's being appointed chairman of the chapter's public relations committee, succeeding his father, Floyd Dillon.

Vice-president George Steelman then introduced the speaker of the evening, Bob Pina, who gave an interesting and entertaining illustrated talk on Venezuelan agriculture and the projects being sponsored there by the Rockefeller foundation.

Robert E. Kallman, Sec'y.

VIRUS-FREE CHERRY

Virus-free budwood of sweet cherry varieties—Bing, Black Tartarian, Royal Ann and others—has been propagated in experimental plantings at Davis, Calif., according to scientists of the agricultural experiment station at Berkeley. Sufficient fruit has been produced on the trees to determine trueness to variety. The budwood is produced in special scion or budwood mother blocks.

To compare the performance of virus-free budwood with that now generally obtained from commercial orchard trees, an experiment has been conducted on a large northern California nursery which has shown

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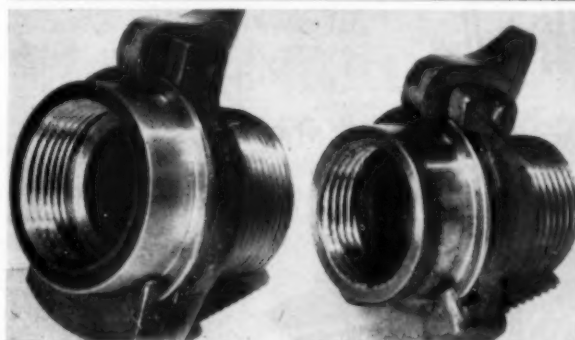
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that the same number of trees can be produced on virus-free budwood of these varieties using one half as much land as required for trees produced on budwood from other sources, and the same number of trees can be produced at half the cost.

The elimination of virus and virus-like diseases probably is of greater economic importance for sweet cherries than for any other stone fruits in northern California. One or more virus diseases has been found in all of the sweet cherry orchards inspected during the past four years. Consequently, it is virtually impossible to propagate trees free from virus diseases if budwood is obtained from commercial orchards. If such latent viruses are eliminated from nursery trees, they will not be introduced into orchards by the propagation method. It is possible, however, that insect vectors may carry some diseases into clean orchards from nearby contaminated orchards. Virus-free orchards have been established in several cherry districts and should supply some definite answers on this point.

STIBLING'S EXPANDS

Stribling's Nurseries, Merced, Calif., have embarked on an extensive expansion program. The first stage of the nurseries' enlargement took place when the firm bought and cleared ground formerly occupied by a cannery, which adjoins the nurseries' present buildings. A warehouse was constructed on the cannery's old foundation, and a self-service retail garden store will be constructed elsewhere on the property.

Stribling's is one of the state's largest nursery firms, realizing more than \$500,000 a year in gross sales, according to an officer of the firm.

BILLBOARD SHOWS PLANTS

The highway billboard, which usually serves only to conceal the nurserymen's products from the traveling public, has been adapted by a Washington nurseryman to help display his plant materials. Clarence Prentice, Prentice Nursery, Seattle, Wash., has been using a billboard on East Marginal Way with sections cut out of each wing, in which he puts specimens of current ornamentals. The plants are set back into the recessed compartments, and by-passers report that carefully placed indirect lighting gives the display a 3-dimensional appearance.

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STUDY PESTS BY RADIATION

Radioactivity is being put to work by scientists of the United States Department of Agriculture to find out why some insects develop resistance to insecticides, how fast they fly and what the action is of an insecticide on an insect.

Since insects often carry diseases of plants and sometimes do great damage themselves, the knowledge of how far they can travel in a period of time helps the entomologist to work out methods of control.

For instance, an entomologist at the agricultural research center at Beltsville, Md., will, in forthcoming experiments, "tag" the bark beetle with a radioisotope of scandium, one of the lesser-known chemical elements, which emits a powerful gamma ray. Weak trees to which such beetles naturally fly, located at various distances from the point of release, may be used as natural traps to check distances beetles migrate. "Scintillation counters," which are sensitive to gamma rays, will reveal the presence of the radioactive insects that have burrowed beneath the bark and even as far as six inches into the tree "traps." In one experiment in the west, radioactive blowflies were detected by Geiger counters in traps 20 and 28 miles from the point of release.

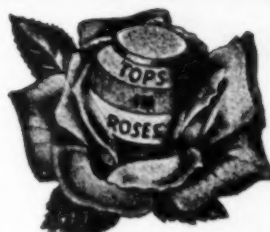
The effect of an insecticide upon an insect can be traced by applying a radioactive insecticide to an insect and following its route into and through the insect's nervous and digestive systems by means of photographic plates and other detection devices. Radioisotopes have already proved their value in studies of minute physiological changes within the bodies of insects.

USE INSECTICIDES PROPERLY

Proper use and attention to details are necessary for satisfactory results from insecticides, according to Dr. A. N. Tissot, entomologist of the University of Florida agricultural experiment stations. Dr. Tissot emphasized that much insecticide material is wasted and frequently poor results are obtained by nurserymen and gardeners because the material is not used correctly.

Before they are put on the market, all insecticides are tested as to pests they will control, amounts needed for best results, toxicity, most efficient methods of use and other important factors. Directions for the use of insecticides are based on these tests. It follows that the nurseryman who is careful to heed directions as to the

"TOPS IN ROSES"



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PLANTS THAT PERFORM

The new AARS winners

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For Fall, 1953—Spring, 1954

Flowering, Ornamental and
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Combination carlots for eastern
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**CAMELIAS — ROSES
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kind of insecticide to use, the amount to use, the method of application, safeguards to observe and the time of application should and usually does obtain more satisfactory results than one who is careless with this material.

Before one begins control measures against any pest, he should determine what kind of insect it is. Dr. Tissot explained that an insecticide may control one pest but may have little effect on another. A nurseryman should use the insecticide that has proved effective against the particular pest that is attacking his crop and should use it according to directions. In applying an insecticide, the entomologist explained, it is important to use the right amount, as too much may be harmful to the plants and too little may not give satisfactory control. When directions call for safeguards, they should be observed with care to avoid injury and trouble.

GOLDEN ANNIVERSARY

Floyd C. Kaylor and Mertie L. Weatherston, of Loveland, Colo., were married at Colfax, Wash., August 15, 1903. On August 15, 1953, the couple, who now own the Kaylor Nurseries, Lakewood, Wash., received the good wishes of their friends on their golden wedding anniversary at an open house held at Midway, Wash. The festivities were informal, and light refreshments were served.

The anniversary event was arranged by the Kaylor's five children and was attended, among many others, by their six grandchildren.

NEW PECAN VARIETY

Barton, a new pecan which yields well, with nuts thin-shelled and kernels with good keeping qualities, has been introduced by the United States Department of Agriculture. It was developed from crosses between the Moore and Success varieties made in 1937 by L. D. Romberg, of the United States pecan field station, Brownwood, Tex. The new variety is named for the late John Barton, Sr., in whose orchard the crosses were made.

The Barton tree is vigorous in growth and branches freely, though its form is less spreading than that of the parent variety, Success. It comes into production early. A moderately heavy yielder, it leafs out relatively late in the spring. The nuts have exceptionally thin shucks that open well at maturity.

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We pay shipping costs on lining-out stock to all points in the United States, Canada and Alaska. No packing charge is made on either lining-out or balled stock.

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Lilies

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In Tender and Hardy Rhododendrons

Also General Nursery Stock

Price list on request.

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Help and Situation Wanted and For Sale Advertisements.

Display: \$3.50 per inch, each insertion.

Lines: 30¢ line; minimum order \$3.00.

FOR SALE

Nursery of 2½ acres, located on U. S. Highway 62, about 60 miles southeast of Cleveland, O., and near steel city of nearly 200,000 population, on edge of rapidly growing village. Nursery well-stocked with evergreens for foundation and landscape work, broad-leaved evergreens and liners. Well-established business of 17 years. Good clientele and plenty of work in uncrowded field. Modern house, 6 rooms and bath, enclosed porch, gas furnace; double garage with overhead storage; coldframes. Priced with or without equipment, preferably equipped. One lot between residence and nursery. Write Box 988, care of American Nurseryman.

FOR SALE SAN DIEGO AREA

Strategically located retail nursery business in one of California's fastest-growing communities. 230 feet of valuable highway frontage. Owner ill and must sell. Will sell outright or stock only and lease back land and equipment, including living quarters. A real opportunity for an experienced nurseryman. Inquire: Gray Buckner Realty, 7225 El Cajon Blvd., San Diego, Calif. Phone H-6-3259.

HELP WANTED

EXPERIENCED PROPAGATOR

Man capable of taking complete charge of greenhouse totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

HELP WANTED

Established landscape nursery wants a working foreman. Must have planting knowledge of evergreens and shrubs. Some selling. Year-round job in Chicago North Shore suburbs. Reply to Box 991, care of American Nurseryman.

FOR SALE

Thriving nursery business, 30 miles west of Chicago Loop in growing community. 2 acres of young stock—evergreens, trees and shrubs. 17½ acres of rich black soil available. 4-bedroom, modern home. New, 3-car block garage, 60-ft. packing house and sales office. Other building. Owner moving south.

MARDON ACRES NURSERY
Rt. 1, West Chicago, Ill.

FOR SALE

15 acres of land; 5 acres planted with ornamental nursery stock. Located 30 miles northwest of Chicago on main highway. 4-year-old, 6-room ranch house, newly decorated, with gas heat and full basement. Opportunity for cash-and-carry and development of good landscaping business. Other business interests is reason for selling. Price \$53,500. Reply to Box 990, care of American Nurseryman.

HELP WANTED

LANDSCAPE ARCHITECT

Willing, aggressive and cooperative young man, graduate landscape architect or equivalent, needed by company located in southwestern part of Nassau county on Long Island, N. Y. Must have ability to produce mechanical or free-hand drawings; must have excellent ability to visualize; must be able to organize projects and follow through. Previous work with hands an asset. Please give full qualifications in first letter, including recent photograph and expected salary. Address Box 970, care of American Nurseryman.

HELP WANTED

LANDSCAPE FOREMAN

We need an experienced man with thorough knowledge of plant materials, transplanting, etc. Must be capable of supervision of crews, able to read and carry out plans and not afraid of work. \$100.00 per week to start, on a guaranteed year-round basis.

We are a leading and rapidly growing midwestern nursery and landscape organization. Write or call for interview. Be prepared to show proof of experience and provide adequate references.

SECOR LANDSCAPE CO.
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Phone LAwndale 2191

HELP WANTED

Experienced nurseryman, at least 30 years old, for small mail-order business. No landscape work. Must be an ambitious, hard worker. 6-day week. \$275.00 per month, plus new 5-room apartment and 4-week paid vacation during winter months. Located about 1 hr. from New York city. Must fill position by March 1, 1954. Give complete details about yourself and past 5 years' experience. Write Box 992, care of American Nurseryman.

HELP WANTED

NURSERY FOREMAN

To work as assistant to manager of 100-acre nursery specializing in ornamental shrubs. Location northeast Ohio. \$360.00 per month guaranteed to start. Annual paid vacation. Every opportunity to advance. Must be thoroughly trained and able to handle men. Full particulars in first letter, please. Address Box 993, care of American Nurseryman.

HELP WANTED

SALESMAN

One of the oldest and largest nurseries and landscape contracting concerns in Philadelphia now offering an exceptional opportunity and highly profitable position for experienced man. Selling field unlimited.

AMERICAN FORESTRY SERVICE CO.
Lancaster Pike and Indian Creek Rd.
Philadelphia 31, Pa.

HELP WANTED

Large midwest wholesale nursery needs a salesman willing to work part-time in the office. A good position with a future. Application confidential. Address Box 975, care of American Nurseryman.

HELP WANTED

LANDSCAPE SALESMEN

Requirements: Able-bodied men, 25 to 35 years old, industrious, good personality, at least high school education and own automobile. State qualifications and furnish references.

Facts About Company: Organized 1887. 500 acres at Arlington, Neb.; branches in Omaha, Neb., and Denver, Colo. Serve Nebraska and Colorado and states adjacent thereto. Grow evergreens and deciduous materials suitable for quality landscape jobs. Territories open in Nebraska, Iowa and South Dakota.

Remuneration: Have several men earning \$5,000 to \$15,000 per year. Any live wire can do the same. Weekly drawing account based on sales.

Application: Write Chas. W. Andrews, Sales Manager, Marshall Nurseries, 84th and Center St. Rd., Omaha 6, Neb.

HELP WANTED

Experienced Nurserymen

One of the largest nurseries in southern California offers profitable, permanent positions to nurserymen with experience and ambition. Security, pleasant working conditions and an unlimited future for the right men. Beginning salary \$300.00 per month.

MONROVIA NURSERY CO.

Box 196
Monrovia, Calif.

HELP WANTED

LANDSCAPE ARCHITECT

Aggressive man to sell, draw plans and contact the public. Write us giving your background, former employers and salary expected.

HILLENMEYER NURSERIES
Lexington, Ky.

SITUATION WANTED

Man with 15 years' experience in office of nursery doing wholesale and retail business desires position. Duties included buying, selling, shipping, production planning and office management. Reply to Box 983, care of American Nurseryman.

SITUATION WANTED

Can your business use a graduate landscape architect who has no experience in any phase of nursery work and who would be willing to start in any position? Address Box 994, care of American Nurseryman.

CLASSIFIED ADS

Rate: 30 cents per line, each insertion.

Minimum order, \$3.00

Instructions for the next issue must be received by Monday, August 31.

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AZALEAS
Thousands of beautiful Kurume Azaleas. Dense, bushy, well-budded—for landscape planting and forcing. Book your order now to be sure of getting yours for next season, as there never are enough to meet the demand.

THE TANKARD NURSERIES
Exmore, Va.

AZALEAS

HINODEGIRI heavy, sheared stock, northern-grown, 8 to 10 ins. and 10 to 12 ins., well-budded. Truck pickup. For beetle zone only.

LEHIGH VALLEY NURSERIES, INC.
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RASPBERRIES

DURHAM, new, red everbearer.

	Per 100	Per 1000
No. 2 plants	\$ 8.00	\$ 75.00
No. 1, 3/16 to 1/4-in. cal.	9.50	90.00
Heavy, 5/16 and up	12.50	120.00
Transplants	16.00	150.00

Doubly state inspected, October 15 and 20. Cash. Free packing.

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25,000 Pixwell Gooseberries, 2-yr., No. 1, mostly extra-heavy, 5c to 7½c each. Will let go for 20,000 if you take them all and dig them yourself. Will furnish tractor and operator free of charge for digging.

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LILIUM CANDIDUM

North American grown. Immediate delivery.
8 to 9-in. cir. \$17.50 per 100
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A. C. VANEL, Bulb Growers, Sodas, N. Y.

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New rare, scarce and unusual as well as standard varieties. Send for your free copy. New wholesale list now ready.

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The south's largest growers of Hemerocallis offer quality stock of good leading varieties at quantity prices. Many new varieties are included. Write for wholesale catalog.

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1200 to 1800 fine, disease-free camellias must be moved this coming season. One to five-year grafts and own-root stock. Varieties consist of finest rare varieties and good standard varieties. Sale of entire lot at most reasonable price.

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Surplus Stock
can be easily and quickly turned into
Cash

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SEEDLINGS

2-year Seedlings

	Per 100	Per 1000
Colorado Blue Spruce (Hand-picked seed from blue trees)		
3 to 6 ins.	\$ 7.00	\$35.00
Riga Scotch Pine, 6 to 12 ins.	6.00	35.00
Norway Spruce, (Fast-growing strain),		
3 to 6 ins.	4.00	21.50
American Arborvitae, 6 to 10 ins.	8.00	40.00
White Spruce, (glauca),		
5 to 10 ins.	9.00	46.50
Nikko Fir, 4 to 8 ins.	17.50	

Parcel post prepaid.
Price list on request.

NEUNER'S EVERGREEN NURSERY
R. F. D. 3, Emsworth 2, Pa.

EVERGREEN LINERS

	Each	Per 100	Per 1000
BERCKMANS BIOTA A. N.			
2-in. pot, 2-yr.	\$0.22	\$0.17	
Thumb pots, 2-yr.	.21	.16	
1-yr., field-grown	.27½	.22½	
2-yr., field-grown	.35	.30	
WOODWARD GLOBE ARBORVITAE			
2½-in. pot, 2-yr.	.25	.20	
2½-in. pot, 1-yr.	.21½	.16½	
2-in. pot, 2-yr.	.21½	.16½	
1-yr., field-grown	.25	.20	
2-yr., field-grown	.35	.30	
PYRAMID ARBORVITAE			
2½-in. pot, 2-yr.	.25	.20	
2½-in. pot, 1-yr.	.21½	.16½	
2-in. pot, 2-yr.	.21½	.16½	
1-yr., field-grown	.25	.20	
2-yr., field-grown	.35	.30	
HETZI GLAUCIA JUNIPER			
2½-in. pot, 2-yr.	.23	.18	
2½-in. pot, 1-yr.	.20	.15	
BURKI JUNIPER			
2½-in. pot, 1-yr.	.27½	.22½	
TAXUS MEDIA			
2½-in. pot, 2-yr.	.25	.20	
2½-in. pot, 1-yr.	.20	.15	
TAXUS HICKSI			
2½-in. pot, 2-yr.	.25	.20	
2½-in. pot, 1-yr.	.20	.15	
2½-in. pot, 2-yr.	.22	.17	
4-yr., field-grown	.45	.40	
GREBE (STRICTA) JUNIPER			
Thumb pot, 2-yr.	.23	.18	
BAKERI ARBORVITAE			
Thumb pot, 2-yr.	.20	.15	
2-yr., field-grown	.30	.25	

LANDSCAPE-SIZE EVERGREENS

	Each
Berckmans Biota A. N.	\$1.75
Pfitzer Juniper	3.00
Hetzi Glauca Juniper	3.00
Virginiana Glauca Juniper	3.00
Hill Dundee Juniper	3.50
Canaert Juniper	3.00
Columaria Juniper	2.50

TERMS: Cash with order—Free packing.
300 plants of one variety at 1000 rate.
Not less than 50 of a variety.
Orders for spring held for one-quarter deposit.

VOGE NURSERY
New Lebanon, O.

B&B EVERGREENS, ETC.

	Each
700 Andorra Juniper, 18 to 24 ins.	\$1.95
400 Andorra Juniper, 2 to 2½ ft.	2.50
500 American Arborvitae, 2½ to 3 ft.	2.00
300 Irish Juniper, 2 to 2½ ft.	2.00
100 Irish Juniper, 2½ to 3 ft.	2.50
300 Pfitzer Juniper, 18 to 24 ins.	2.25
100 Pfitzer Juniper, 2 to 3 ft.	3.00
150 Taxus Cupidata (Spreading),	
15 to 18 ins.	1.95
3800 Globe Woodward Arborvitae,	
12 to 15 ins.	1.50
3900 Juniperus Glauca Hetzi,	
18 to 24 ins.	2.00
1800 2 to 2½ ft.	2.50
900 2½ to 3 ft.	3.50
1900 Pyramidal Arborvitae, 2½ to 3 ft.	2.35
740 Pyramidal Arborvitae, 3 to 3½ ft.	2.75

Other Balled and Burlaped Items
300 Dogwood, White-flowering,
3 to 4 ft. 2.00
380 4 to 5 ft. 2.50
510 5 to 6 ft. 3.50
200 Silver Maple, 7 to 8 ft., heavy. 2.00
100 Chinese Elm, 5 to 6 ft., heavy. 1.75
300 Forsythia Fortunei, 3 ft., heavy. 1.00

Evergreen Liners

5800 Andorra Juniper, 6 to 9 ins., T. \$12.50
3450 Andorra Juniper, 8 to 10 ins., T. 15.00
4100 Bar Harbor Juniper (Green),
6 to 8 ins., T. 11.00
2700 Bar Harbor Juniper (Green),
8 to 10 ins., T. 15.00

Above stock is offered for fall, 1953, delivery. Prices are F.O.B. our St. Marys nursery. Can be certified for delivery outside the beetle area.

WHERRY'S NURSERIES

St. Marys, W. Va.

ROOTED CUTTINGS AND

1-YR. TRANSPLANTS

	Per 100
Globe Arborvitae, 6 to 7 ins.	\$15.00
Taxus Cupidata, 6 to 10 ins.	8.00
Taxus Hicksi, 8 to 10 ins.	15.00

1-YR. TRANSPLANTS

	Per 100
Juniper, Andorra Plumosa, 7 to 8 ins.	15.00
Juniper, Andorra Stricta, 7 to 8 ins.	15.00
Juniperus Hetzi Glauca, 9 to 10 ins.	15.00
Taxus Cupidata, 9 to 10 ins.	15.00

Mtd. R. 4 NEIDEL'S NURSERY Oil City, Pa.

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS

	Each	Per 100	Per 1000
Arborvitae, American Dark Green,			
1-yr. pots	\$0.20	\$0.18	
Arborvitae, Globe, 1-yr. pots	.20	.18	
Arborvitae, Pyramidal, 1-yr. pots	.20	.18	
Arborvitae, Pyramidal, 2-yr. pots	.25	.24	
Juniper, Blue Hetzi, 1-yr. pots	.22	.20	
Juniper, Gold Pfitzer, 1-yr. pots	.24	.22	
Juniperus virginiana burki,			
2-yr. pots	.37	.35	
Taxus hicksi, 2-yr. pots	.24	.22	

HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

	Each	Per 100	Per 1000
Arborvitae, American			
Dark Green	\$0.10	\$0.09	
Arborvitae, elegantissima	.10	.09	
Arborvitae, Globe Woodward	.10	.09	
Arborvitae, Pyramidal	.10	.09	
Euonymus alatus compactus	.09	.08	
Euonymus patens	.06	.05	
Juniperus hetzi glauca	.11	.10	
Juniper, Swedish	.10	.09	
Taxus cuspidata	.11	.10	
Taxus heterophylla	.11	.10	
Taxus intermedia	.11	.10	
Taxus media hicksi	.11	.10	

2 per cent discount and free packing for cash with order.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREENS

UPRIGHT YEW (Taxus Capitata). These are

fine, well-filled plants. T.T.T.

	10 to 24	25 to 49	50 to 100
Each	Each	Each	Each
150 2½ to 3 ft.	\$ 7.00	\$ 6.50	\$ 6.00
375 3 to 3½ ft.	9.25	8.50	8.00
200 3½ to 4 ft.	11.50	10.50	10.00

CANADIAN HEMLOCK, T.T.T. Bushy plants

with fibrous roots.

	400	3.75	3.50
90 2½ to 3 ft.	4.00	3.75	3.50
125 3 to 3½ ft.	5.00	4.75	4.50
125 3½ to 4 ft.	6.00	5.75	5.50
125 4 to 4½ ft.	7.00	6.75	6.50
90 4½ to 5 ft.	8.00	7.75	7.50

JUNIPERUS COLUMNARIS, JUNIPERUS

KETELEERI, JUNIPERUS MASCULA, T.T.T.

Quality sheared plants.

	4.00	3.25	3.00
2½ to 3 ft.	4.00	3.25	3.00
3 to 3½ ft.	4.50	4.25	4.00
3½ to 4 ft.	5.00	4.75	4.50
4 to 4½ ft.	6.00	5.75	5.50
4½ to 5 ft.	7.00	6.75	6.50

No boxing. Prices F.O.B. Terre Haute.

Terms: Net cash unless satisfactory references

are furnished in advance.

You are invited to inspect these.

HAAS HOME NURSERIES

29th and Poplar Sts.

Terre Haute, Ind.

EVERGREENS—ROOTED CUTTINGS

FROM GREENHOUSE

	Per 1000
Biota excelsa, 2 to 4 ins.	\$ 70.00
Biota conspiciua, 2 to 4 ins.	70.00
Biota fruitlandi, 2 to 4 ins.	70.00
Ilex crenata rotundifolia, 2 to 4 ins.	60.00
Ilex crenata rotundifolia, 4 to 6 ins.	70.00
Photinia serrulata sdgs., 2 to 4 ins.	40.00
Photinia serrulata sdgs., 4 to 6 ins.	50.00
Photinia serrulata, 2-in. pots.	150.00
Abelia grandiflora, H.C.	50.00
Euonymus patens	50.00
Juniper, Pfitzer, 5 to 7 ins.	90.00

Delivery Nov. 1

SPECIAL

Foster's Hybrid Holly.

New and exceptionally attractive dark

spiny leaves. Red berries. Supply limited.

	Per 100	Per 1000
Rooted cuttings	\$25.00	\$200.00
Buxus sempervirens, R.C., very hardy		

type, outside bed. 4 to 6 ins. \$ 80.00

6 to 8 ins. 100.00

BROSEMER NURSERY

Route 1, Box 155 Huntsville, Ala.

EVERGREENS

Field-grown Transplants.

	Per 100
American Arborvitae, 15 to 18 ins.	\$80.00
American Arborvitae, 12 to 15 ins.	40.00

Seedlings.

	Per 100	Per 1000
Certified Riga Scotch Pine, 2-0,	\$5.00	\$45.00
4 to 8 ins.	5.00	45.00
Austrian Pine, 3-0, 8 to 12 ins.	5.50	65.00
White Pine, 3-0, 6 to 8 ins.	5.50	65.00
Douglas Fir, 3-0, 4 to 8 ins.	5.50	65.00

HILLSIDE NURSERIES

Yoe, Pa.

NORTHERN-GROWN YEW

B&B TAXUS

These uprights are compact sheared specimens.
400 Taxus Cuspidata Capitata, 24 to 30 ins., \$8.00 ea., or \$7.50 ea. in 100 lots.
210 Taxus Andersonii, 18 to 24 ins., \$5.00 ea. in 100 lots.

Lining-out Stock.

1-yr. Taxus Cuspidata liners, \$189.00 per 1000, or 20c ea.
Please mail your order soon. Cash with order.

PETERSON'S NURSERY & GREENHOUSE

RR 3, Rochester, Minn.

EVERGREENS

30,000 evergreens for fall, 1953, and spring, 1954. Salesyard and landscaping sizes consisting of Juniperus canariensis, Juniperus glauca, Juniperus keteleeri and Juniperus burkii, grafts; also Pfitzer, Hetz, Koster, Andorra, Waukegan, Savin, Von Ehron, Irish, Pollah, Ashford and Hillbush Junipers. Dark Green Compact and Berckmans Golden Arborvitae. Also some Berberis julianae, Euonymus patens and Mahonia.

Many fine specimen grafts, sheared and root pruned. Come and see these fine trees or write for prices you can afford to pay.

SHAMROCK NURSERY

P. O. Box 128 Mt. Vernon, Ill.

EVERGREEN SEEDLINGS

Per 100 Per 1000

Juniperus communis, 2-yr., 6 to 10 ins. \$4.00 \$30.00
Juniperus scopulorum, 3-yr., 6 to 12 ins. 6.00 50.00
Thuja orientalis, 2-yr., 6 to 12 ins. 4.00 30.00
Shipped, muddled and moss-packed.
THE HARRIS GARDENS
Enterprise, Kan.

FINISHED EVERGREENS For Landscape Planting

Per 10

Canadian Hemlock, 4 to 5 ft. \$6.50
Canadian Hemlock, 5 to 6 ft. 7.50
Taxus Cuspidata, 18 to 24 ins. 3.00
Taxus Cuspidata, 2 to 3 ft. 4.25
Taxus Hicksii, 2 1/2 to 3 ft. 4.50
Write for Trade List.
B. F. BARR & SON NURSERIES
R. D. 2, Lancaster, Pa.

LINING-OUT STOCK

Each

Euonymus Patens, from 2 1/2-in. pots. \$0.12
Savin Juniper, from 2 1/2-in. pots. .20
Andorra Juniper, from 2 1/2-in. pots. .20
Pfitzer Juniper, from 2 1/2-in. pots. .20
Pyraecantha Lalandi, from 3-in. pots. .30
F.O.B. Cash please.
GLASSCOCK BROS.
6119 Agnes Kansas City 30, Mo.

NORWAY PINE

Offering field-grown Norway Pine for Christmas trees, sizes 5 to 6 ft., 6 to 7 ft. and 7 to 8 ft. We have several large trucks for truck delivery. Also, motor freight service. Write for price list.

FAIRMONT NURSERY

Fairmont, Minn.

EVERGREENS

Evergreen seedlings and transplanted lining-out stock of Arborvitae, Fir, Juniper, Pine, Spruce and Yew. Good stock, reasonably priced. Now taking orders for fall and spring delivery. Price list on request.

C. WILSON'S NURSERY

Pembine, Wis.

EVERGREENS

Per 100

Pfitzer Juniper, 2 1/2 to 3 1/2 ft., XXX. \$250.00
Red Barberry, very bushy, 18 to 24 ins. 45.00
Dig yourself.
A. HEISE
4660 Washtenaw Rd. Ann Arbor, Mich.
Phone: 28920

EVERGREEN SEEDLINGS

Per 100 Per 1000

Juniperus Scopulorum, 3-yr., 6 to 12 ins. \$6.00 \$50.00
These will all make very beautiful trees. Packed to reach you in top condition.
THE HARRIS GARDENS
Enterprise, Kan.

BOXWOOD

Buxus Suffruticosa (Old English), field-grown, bushy plants, 4 to 6 ins. \$45.00 per 100, \$400.00 per 1000.

THE LEVICK NURSERY CO.

R.F.D. 3 Bridgeton, N. J.

OLD ENGLISH BOXWOOD LINERS

Three years in bed, \$15.00 per 100, \$125.00 per 1000, cash with order. Free sample on request.

BROWN'S NURSERY

Harmony, N. C.

EVERGREENS

Upright Junipers
Extra nice, landscape size.
SINCK'S NURSERY
Rt. 1, Arcamum, O.
Phone: 3089-S, Greenville, O.

LINING-OUT STOCK

Ilex-Taxus-Azalea, etc.

See our ad, page 32, in this issue.

BROOKFIELD GARDENS

U. S. Rt. 46 Delaware, N. J.

GRAFTED TREE PEONIES LAKE SAMMAMISH EVERGREEN NURSERY

Rt. 1, Box 79 East Stanwood, Wash.

FRUIT and NUT TREES

CATANEA MOLLISSIMA
Blight-resistant Chinese Chestnuts. Pure stock. No Japanese mixed. Fine, selected, sturdy trees for retail sales. At these low prices your profits are even greater.
2-year seedlings.

1 to 1 ft. .35c each
2 to 3 ft. .50c each
3 to 4 ft. .65c each
Lots of 10 or more.
Transplants, 2 years old. Good quality.
2 to 3 ft. .65c each
3 to 4 ft. .85c each
Lots of 10 or more.
Lining-out stock, 1 year old.
12 to 18 ins. .20c each
18 to 24 ins. .25c each
Lots of 100 or more.

All prices F.O.B. our shipping point. Packing free on all orders. Cash with order please. Don't wait until all these fine trees are gone.
ORDER NOW!

ENTERPRISE NURSERY

Looneyville, W. Va.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

GROUND COVERS

VINCA MINOR, MYRTLE PERIWINKLE
Fresh-dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000, 30-cane clumps, \$90.00 per 1000.
Pachysandra, strong 1-yr., rooted, \$55.00 per 1000.
Hall's Honeysuckle, branched, \$45.00 per 1000.

H. C. WAUGH Cheshire, O.

PACHYSANDRA TERMINALIS, strong rooted cuttings, \$3.75 per 100, \$35.00 per 1000.
Beetle Zone only. Over 5000, \$32.50 per 1000.
DUNWOODIE NURSERIES, 6 Smart Ave., Yonkers, N. Y. Yonkers 5-1473

PACHYSANDRA TERMINALIS
Strong, 1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

Don't Be Late!

Mail advertising copy to reach the American Nurseryman Monday, two weeks before date of issue.

HARDY PLANTS

ORIENTAL POPPIES

Shipping Starts August 15

Book Now!!

	10	100
Amber Glow	\$2.50	\$20.00
Barr's White	3.50	30.00
Beauty of Livermore, crimson	2.75	22.50
Cerise Beauty	2.25	18.00
Curtis Giant Flame	3.50	30.00
Curtis Giant Flesh Pink	3.50	30.00
Curtis Giant Salmon Pink	3.50	30.00
Curtis Mulberry	3.50	30.00
Gold of Ophir, gold-orange	3.00	25.00
Helen Elizabeth, pink	2.75	22.50
Henri Cayeux Improved	2.50	20.00
Joyce, cherry-red	2.25	18.00
Lachs Koenigen, salmon-pink	2.50	20.00
Little Shrimp	2.50	20.00
Mrs. Perry	2.50	20.00
Purity, pink	2.50	20.00
Raspberry Queen	4.00	35.00
Royal Scarlet	3.00	25.00
Salmon Glow, double	2.50	20.00
Sass Pink	2.50	20.00
Toreador, carmine-red	3.50	30.00

THE JOSEPH F. MARTIN CO.

Painesville, O.

ORIENTAL POPPIES

Strong, true-to-name, field-grown roots.
Finest we have ever grown.

	Per 10	Per 100
CHEERIO, blush-pink, red spots	3.00	25.00
G.I. JOE, finest watermelon-pink	3.50	30.00
GLOWING EMBERS, glowing red	2.50	20.00
HELEN ELIZABETH, soft pink, heavily crinkled	2.30	18.00
HENRI CAYEUX IMPROVED, old rose, tinted lavender	2.50	20.00
JOYCE, cherry-red	2.30	18.00
PINK LASSIE, mammoth salmon-pink	3.00	25.00
RED FLAME, fiery scarlet-red	2.50	20.00
RIDGEWOOD BEAUTY, bright geranium-pink, ruffled	3.00	25.00
ROSE BEAUTY, distinct cerise-pink	2.30	18.00
UNNAMED VARIETIES	2.00	15.00

FLOR-ACRES, Bridgman, Mich.

ORIENTAL POPPIES

Heavy, field-grown stock. Available fall, 1953.

	Dos.	100
Barr's White	\$6.00	\$35.00
Beauty of Livermore	5.50	25.00
Cavalier	5.50	25.00
Cheerio	5.75	30.00
Cowigan	5.00	35.00
Crimson Pompon	5.50	25.00
Curtis Giant Flame	5.75	30.00
Curtis Giant Flesh Pink	5.75	30.00
Curtis Giant Mulberry	5.50	25.00
Enchantress	5.50	25.00
Gold of Ophir	5.50	25.00
Helen Elizabeth	5.50	25.00
Henri Cayeux Improved	5.50	25.00
Indian Chief	6.00	35.00
Jeanne Mawson	5.50	25.00
May Sadler	5.50	25.00
Mrs. Perry	4.75	20.00
Salmon Glow (Double)	4.75	20.00
Salome	7.50	45.00
Sonata	7.50	45.00
Souvenir	7.50	45.00
Splendor	5.75	30.00
Sultana	7.50	45.00
Sungod	7.50	45.00
Surprise	7.50	45.00
Toreador	5.50	25.00

THE WAYSIDE GARDENS CO., INC.

Mentor, O.

BLEEDING HEARTS

Per 100
Dicentra Spectabilis, 3 to 5-eye. \$25.00
Dicentra Spectabilis, 5 to 8-eye. 35.00
Also Peonies and Day Lilies.

ROBINSON GARDENS

Scotts, Mich.

DELPHINIUM PACIFIC HYBRIDS

Separate colors and mixed, 2-in. pots, 9c.
New pink Astolat, 2-in. pots, 13 1/2c.
HARDY CHRYSANTHEMUMS
We have 50 of the best varieties, 300 rooted cuttings, 20 each of 15 varieties, our selection, \$16.50. 300 plants from 2-in. pots, 20 each of 15 varieties, our selection, \$33.00.
STRATFORD GARDENS Delaware, O.

BLEEDING HEARTS

Per 100
Dicentra Spectabilis, 3 to 5. \$25.00
Dicentra Spectabilis, 5 to 8 and up. 40.00
Dicentra Eximia, 3 to 5. 15.00
Dicentra Eximia, 5 to 8 and up. 20.00
J. HENDRIKS, GROWER
PORTAGE, MICH.

HARDY FERNS

Ostrich, Clayton, Lady and Maidenhair, \$7.50 per 100; XX size, \$10.00.
STRAND NURSERY CO.
Taylors Falls, Minn.

PERENNIALS

New and standard kinds.
New wholesale list now ready.
CARROLL GARDENS
Box 15 Westminster, Md.

America's Best Source for Hardy Plants is

THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

Pansies, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANST FARM & NURSERY
Bristol, Pa.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

HOLLY

HARDY AMERICAN HOLLY

Ilex Opaca, out of 3-in. pots or equivalent. Over 15 varieties. Several varieties of males, 10 varieties of female or berry bearing, among them a weeping type and one Goldie, a yellow berry variety. Fall, 1951, 2-yr. cuttings, 55c. 1952 cuttings, 45c. Extra-choice varieties, Betsy, Sally and St. Mary, 1952 cuttings, 65c, and 1952 cuttings, 55c.
Ilex Aquifolium (Hardy English Holly), male and female, 1951 cuttings, 65c, and 1952 cuttings, 55c.
Ilex Burfordi (stocky plants), 1952 cuttings, 25c. Ilex Cornuta, 1951 cuttings, 25c; 1952 cuttings, 20c. Ilex Glabra, 1952 cuttings, 25c. Ilex Convexa Bullata (very stocky plants), 20c.
Minimum order 50 plants.

LOUIS DANK

1170 Broadway New York 1, N. Y.

HOLLY

HARDY CALIFORNIA-GROWN
Female Plants, cutting-grown out of 3-in. pots.

Per 100
Ilex Aquifolium, green, 10 to 12 ins. \$45.00
Ilex Aquifolium, variegated, 6 to 8 ins. 55.00
Ilex Cornuta Burfordi, 8 ins. 30.00
DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
Pipeline and Walnut Chino, Calif.

Watch Your Results From
American Nurseryman Classified Ads.

IRIS

GERMAN IRISES
Healthy roots from one-year transplanted stock.

	Doz.	100
Angelus	\$3.75	\$12.00
Azure Skies	4.75	20.00
Blue Rhythm	5.50	25.00
Blue Shimmer	5.50	25.00
Captain Wells	3.75	12.00
Copper Rose	4.75	20.00
Elmohr	4.00	15.00
Fair Elaine	3.50	11.25
Flora Zenor	5.50	25.00
Grand Canyon	5.50	25.00
Gudrun	4.75	20.00
Indiana Night	3.25	50.00
Lady Mohr	4.00	15.00
Melitta	3.75	12.00
Mount Cloud	4.00	15.00
Mulberry Rose	3.75	12.00
Nightfall	3.75	12.00
Ola Kala	3.75	12.00
Sleepy Hollow	4.00	15.00
Spun Gold	5.50	25.00
Sunny Ruffles	3.75	12.00
Worthington	4.75	20.00

IRIS PUMILA

	Doz.	100
Sambo, dark blue.....	\$4.00	\$15.00
Jean Siret, chrome-yellow.....	4.25	18.00
Autumn Queen, snow-white.....	4.25	18.00
Lieutenant Chavagnac, violet.....	4.25	18.00
Olive White, cream-white.....	4.25	18.00
Schneecuppe, pure white.....	4.00	15.00

(25 or more plants of one variety at 100 rate.)
THE WAYSIDE GARDENS CO.
Mentor, O.

IVIES

BALTIC IVY. Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., 2 1/2-in. pots, 15c.
EUONYMUS RADICANS: Erecta, Patens, Newport, Carrierel and Coloratus. Rooted cuttings, 6c; 2-in. pots, 10c; 2-yr., field, XX, 20c.
STRATFORD GARDENS Delaware, O.

Hardy ENGLISH IVY from stock surviving in our nursery at below zero temperatures.
Strong, R.C. \$30.00 per 1000. Cash.

BABCOCK GARDENS
R. 3 Jamestown, N. Y.

HARDY ENGLISH IVY, very strong, 2-ins., \$10.00 per 100, \$85.00 per 1000.
JACOB SCHULZ
831 Cherokee Rd., Louisville 4, Ky.

LINING-OUT STOCK

	Each	Each
Taxus Cuspidata, 6 to 8 ins.,	Per	Per
1-yr., T.	100	100
Taxus Hicksi, 6 to 8 ins.,		
1-yr., T.	\$0.17	\$0.16
Thuja Nigra, 4 to 6 ins.,		
1-yr., T. ....	.17	.16
300 at 1000 rate. Free packing.		
14		.14

DRAKE'S NURSERIES
G-4342 Branch Rd. Flint 6, Mich.
LINING-OUT STOCK
Strong greenhouse-grown rooted cuttings of Globe Arborvitae, Pfitzer Juniper, Taxus Cuspidata, Taxus Cuspidata Capitata and Taxus Hicksi, \$8.00 per 100, \$75.00 per 1000.
Strong 2-year transplants, peat ball of Azalea Amoena and Pteris Japonica, \$15.00 per 100, Cash.

WESTWOOD GARDENS, Caldwell, N. J.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

PEONIES

	Per 10	Per 100
Brand's Magnificent	\$5.50	\$50.00
Longfellow	6.50	60.00
Martha Bulloch	6.50	60.00
Mary Brand	6.00	55.00
Monsieur Jules Elie	4.50	40.00
Richard Carvel	6.50	60.00
Sarah Bernhardt	4.50	40.00
Strong, 3 to 5-eye divisions. Cash, F.O.B.		

WHEELLOCK WILSON NURSERY
Marshalltown, Ia.

PEONIES
Top-quality, 3 to 5-eye divisions. Varieties: Felix Crousse, deep rose-pink, and Karl Rosefeld, red, \$20.00 per 100; Frances Willard, giant white with blood spot, \$28.00 per 100. Only orders for 100 or more accepted. Packing free. Cash with order.
Shipment after September 15.

HANSEN'S EVERGREEN NURSERIES
Box 582 Anoka, Minn.

PEONIES
Top-quality, large divisions, \$30.00 per 100. Varieties, Felix Crousse, Karl Rosefeld, red; Festiva Maxima, white; Edulis Superba, pink. Shipment after September 15.
GILBERTSON NURSERY
Kindred, N. Dak.

FOR THREE DOLLARS

you can offer that surplus in a classified ad of 10 lines on these pages — quickly and easily turning stock into cash.

AT ONLY 30c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by August 31.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

PEONIES

Fine cut, fern-leaved, double, deep red
Paeonia Tenuifolia.
Large division, \$3.50.
WILLIAM SLAICHERT
HOME NURSERY
St. Ansgar, Ia.

PEONIES

Monsieur Jules Elie, Edulis Superba, Sarah Bernhardt, 3 to 5-eye, \$30.00 per 100, \$250.00 per 1000; 1 to 2-eye, \$100.00 per 1000.
CONESTOGA GARDENS
Lancaster, Pa.

PEONIES

Disposal sale of approximately 3000 plants. About 125 varieties. Prefer to sell in grounds as are.

BURR OAK GARDENS
Box 147 Fort Atkinson, Wis.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

RHODODENDRONS

	Per 10	Per 100	Per 1000
Rhododendron, hardy hybrid seedlings,			
1-yr., T.,			
blocked from beds.....	\$5.00	\$40.00	\$350.00
1-yr., field-grown,			
4 to 6 ins., B&B.....	6.00	50.00	450.00
2-yr., field-grown,			
6 to 8 ins., B&B.....	8.50	75.00	700.00
Azalea Mollis, T., from flats (blocked), 2 to 3 ins.	15.00	125.00	
Write for our list of larger Rhododendron hybrid seedlings and grafted named varieties.			
LEVICK NURSERY CO.			
R.F.D. 3, Bridgeton, N. J.			

If you don't find it listed here
Try a Want ad in the next issue
of the American Nurseryman.

SEEDS

LAWN SEED
Wholesale prices for landscape gardeners, cemeteries, contractors, etc.

	50 lbs.	100 lbs.
Landscape Gardeners' Mixture.....	\$34.00	\$66.00
Park Lawn Mixture.....	29.00	55.00
Cemetery Mixture	39.00	75.00
Bent Mixture	42.00	81.00
Contractors' Mixture	18.00	33.00
F.O.B. New York, 300 lbs. shipped, freight paid. Send for descriptive list and prices for individual grasses. If you would like to offer your trade for our high-quality lawn seed in bags imprinted with your own name and address write for attractive and novel proposition.		

HERBST BROTHERS
678 Broadway New York 12, N. Y.

SHRUBS and TREES

STOCK FOR FALL DELIVERY

	Each
Azalea Mollis Flame, S. T.	\$0.09
6 to 8 ins. ....	.25
8 to 10 ins. ....	.35
Andromeda (Pieris), 4 to 6 ins.,	
2 1/2-in. pots .....	.16
Andromeda (Pieris), 6 to 8 ins. ....	.20
Clematis Montana Ruben, 2 1/2-in. pot.....	.15
Cypripedium, 4 to 6 ins., X. ....	.85
Daphne Mezereum, S. ....	.07
4 to 6 ins. ....	.12
6 to 8 ins. ....	.15
8 to 10 ins. ....	.20
10 to 12 ins. ....	.25
12 to 14 ins. ....	.30
Heather, Carnea, X. ....	.15
Heather, Medit. Hybrid, X. ....	.12
Heather, Vivell, X. ....	.15
Juniper, Pfitzer Golden, R. C. ....	.18
Juniperus Meyer, X, 6 to 8 ins. ....	.35
Juniperus Tamariscifolia, X, 4 to 6 ins. ....	.15
Juniperus Tamariscifolia, X, 6 to 8 ins. ....	.18
Raphiolepis Ovata, 2-yr. T. ....	.17
Albertiana Spruce, 4 to 6 ins.,	
2 1/2-in. pots .....	.25
Norway Spruce, S.T., 10 to 12 ins. ....	.12
Thuja Berckmans Aurea, X, 4 to 6 ins. ....	.15
Thuja Woodward Globe, X, 4 to 6 ins. ....	.14
X, 6 to 8 ins. ....	.17
X, 8 to 10 ins. ....	.25
Viburnum Davidi, 2 1/2-in. pots.....	.50
Cash with order, please.	

FOUR STAR NURSERY
Rt. 3, Box 2529 Edmonds, Wash.

FALL SURPLUS STOCK

	Per 100
200 Cedrus Atlantica Glauca,	
12 to 15 ins., L.O.	\$150.00
50 Cotoneaster Apiculata,	
12 to 15 ins.	150.00
200 Davidia Involucrata, 2 to 3 ft.	600.00
100 Pink Dogwood, 3 to 4 ft.	350.00
100 Euonymus Alatus Compactus,	
18 ins.	150.00
100 Fagus Sylvatica Fastigiata,	
2 to 3 ft.	400.00
200 Fagus Sylvatica, Purpie Weeping,	
2 to 3 ft.	450.00
200 Fagus Sylvatica Tricolor,	
2 to 3 ft.	450.00
30 Hawthorn Paul's Scarlet, 7 to 8 ft.	500.00
50 Rhus Cotinus Rubrifolium,	
2 to 3 ft.	150.00
Cash with order.	
BRIMFIELD GARDENS NURSERY	
245 Brimfield Rd., Wethersfield 9, Conn.	

NURSERY STOCK

	Per 100
Extra-heavy and Ready for the Field	
Taxus cuspidata capitata, 10 to 12 ins.,	
3-yr., TT	\$ 55.00
Taxus cuspidata, 10 to 12 ins.,	
3-yr., TT	50.00
Taxus media hicksi, 12 to 15 ins.,	
6-yr., TTT field	150.00
Two-yr. plants (1 yr. in pots and 1 yr. in open field beds).	
Taxus cuspidata capitata, 8 to 10 ins.	45.00
Taxus cuspidata, 8 to 10 ins.	35.00
Taxus cuspidata browni, 6 to 8 ins.	40.00
Taxus media hicksi, 8 to 10 ins.	35.00
European White Birch, 12 to 18 ins., S.	15.00
Euonymus yedoensis, 8 to 12 ins.	10.00
FRED P. STROHL	
1404 N. Anthony Blvd., Fort Wayne, Ind.	

MAGNOLIAS

Soulangeana, Nigra and Rustica Rubra. We are now booking orders for these finest-quality liners. Many are slightly branched. A sure money-maker for you. Write for our list of items in gallon cans. Wholesale only.

	Per 100
8 to 12-in. liners.....	\$30.00
12 to 18-in. liners.....	35.00
18 to 24-in. liners.....	40.00
2 to 3-ft. liners.....	50.00
BLACKWELL NURSERIES, INC.	
Semmes, Ala.	

VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum Carlesii seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time.

Strong 2-yr. seedlings, 8 to 12 ins. or better, \$30.00 per 100, \$250.00 per 1000.

C. HOOGENDOORN
Turner Rd. Newport, R. I.

CORNUS

Cornus Florida, strong, 1-yr. seedlings, for budding or grafting, \$50.00 per 1000. Cornus Florida, bushy plants, 2 to 3 ft., \$75.00 per 100. Cornus Florida, Rubra, strong, 1-yr. maidens, 2 to 3 ft., \$150.00 per 100. Cornus Kousa, bushy plants, 3 to 4 ft., \$100.00 per 100.

KLUIS NURSERIES
Pompton Plains, N. J.

CITRUS TRIFOLIATA

Seedlings, 2 to 4 inches, \$3.00 per 100, \$25.00 per 1000. Postpaid. Cash please.
PERRY'S NURSERY
Woodbine, Ga.

FORSYTHIA LYNWOOD GOLD

This new Forsythia is no doubt the finest of all deep yellow varieties and will be the best seller of all. It is very free-flowering, and when it is in bloom with its golden-yellow flowers, we predict there is nothing better. In growth, it has a similar habit to Forsythia Spectabilis, but the flowers are larger and better formed.

Strong, 1-yr. plants, from 2 shoots and up, 2 1/2 to 3 ft., \$40.00 per 100.

KLUIS NURSERIES
Pompton Plains, N. J.

ORIENTAL MAGNOLIA

For Fall Delivery

Magnolia Soulangeana, 2 1/2-in. pots, \$30.00
Magnolia Soulangeana Nigra, 2 1/2-in. pots, 25.00

These plants were potted in June and are well-established, with good root systems.

WELCH BROS. NURSERY, INC.
Wilmer, Ala.

PRUNUS MARITIMA

(Beach Plum)

Strong 1-yr., seedlings, 100 1000
6 to 12 ins., \$10.00 \$ 75.00
2-yr., 8, 12 to 18 ins., 17.50 150.00
3-yr., T, 18 to 24 ins., 30.00 250.00

C. HOOGENDOORN
Turner Rd., Newport, R. I.

BERBERIS

We have a fine stock of Berberis Thunbergii and Berberis Thunbergii Atropurpurea, strong, 2-yr. seedlings for early fall delivery.

Prices on application.
KLUIS NURSERIES
Pompton Plains, N. J.

Watch Your Results From
American Nurseryman Classified Ads.

VEGETABLE PLANTS

VEGETABLE PLANTS

Vegetable plant headquarters for the nation offers you outdoor-grown, fresh, large plants. Satisfaction guaranteed. Carefully packed. State-inspected. Leading varieties—true to name.

CABBAGE PLANTS—1000 for \$1.75, 2000 for \$3.00 and 6000 for \$8.40.

ONION PLANTS—1000 for \$1.50, 2000 for \$2.50 and 6000 for \$4.50.

Delivery now until next June. Shipped by express, F.O.B. Omaha, Tex. Cash with orders, please. Write.

W. G. FARRIER PLANT CO.
Box 555 Omaha, Tex.

VINES

HONEYSUCKLE

Lonicera halliana japonica

Heavy 2, 3 and 4 yrs., No. 1 field plants, 3 to 4 leads, 18 to 24 ins., carefully graded, \$4.00 per 100, \$30.00 per 1000.

Lonicera sempervirens, Scarlet-red. Heavy 18 to 24 ins., \$10.00 per 100, \$80.00 per 1000. No orders too large; immediate shipment.

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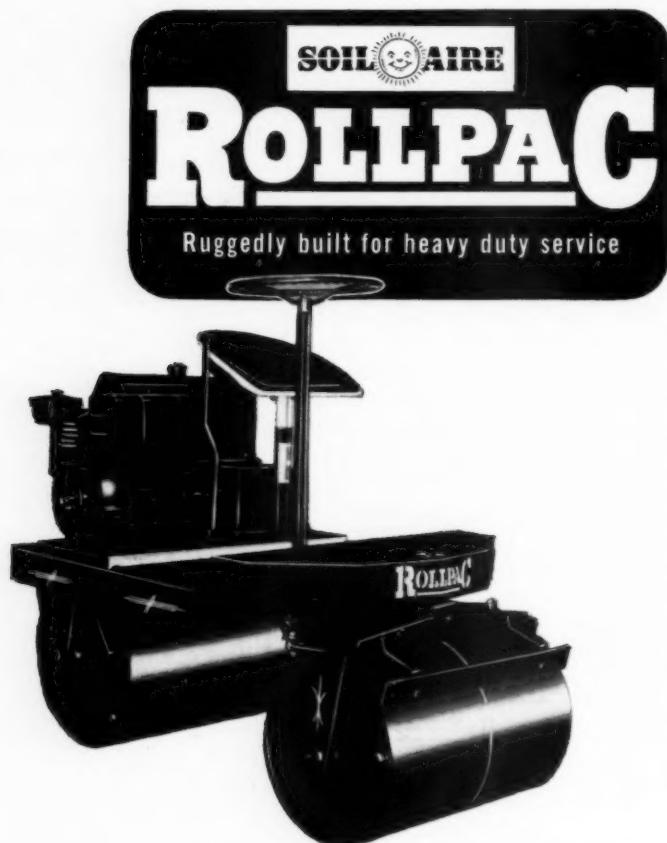
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1 lb. makes 100 gallons liquid plant food.	

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METHYL BROMIDE FOR WEEDS

Methyl bromide will effectively control weeds in nursery seedbeds, according to recent trials by the University of Missouri. Treated seedbeds were virtually weed-free two months following treatment, while a nearby area supported a rank growth of weeds.

P. W. Fletcher, of the university's forestry department, reports that methyl bromide was applied at the rate of four pounds to 100 square feet in late March, when the soil was moderately moist and air temperature was above 65 degrees Fahrenheit. The soil was fall-plowed and harrowed in the spring before the seedbeds were mounded up to a 4-foot width and raked. A vinyl plastic tarpaulin, with a film thickness of .005 inch, was spread over the seedbed frame like a tent and sealed at its edges with soil. Methyl bromide gas was injected beneath the tarpaulin from 1-pound cans in special applicators. Two days later the tarpaulin was removed and, after another two days, pine seeds were sown in each bed and lightly mulched with coarse white oak shavings.

Besides killing weed seeds, Mr. Fletcher says, methyl bromide gas also acts as a soil sterilizer and fumigant, destroying the various damping-off organisms as well as other biotallike white grubs and nematodes, near the soil surface. Observations elsewhere indicate that both beneficial and harmful soil organisms will reinvade treated soil before the end of the first growing season, presumably from unaffected soil beneath or through the air. Vegetation on surrounding areas should be kept mowed.

Since methyl bromide is highly toxic, the following precautions should be observed: (1) Use a plastic face protector, (2) keep a sharp point on the applicator's puncturing device, (3) check the rubber gaskets on the applicators and (4) stand to the windward when removing the tarpaulin.

With reasonable care, the plastic tarpaulin and applicators should last for at least five years. The tarpaulin cost 8 cents a square foot, the applicators \$1.50 each and the 1-pound pressurized cans of gas 70 cents each.

FIRE in early August destroyed the factory of the Premier Peat Moss Corp. at Isle Verte, Que., Canada. Production at other factories is being expanded to replace the loss in output.

INDIANA SUMMER MEETING

[Continued from page 10]

central section. Various scales have been serious on such trees as dogwood, redbud and soft maple.

Traps are being maintained over the state for detection of any European chafer, the grubs of which are said to be worse than those of the Japanese beetle. None have been found to date. Nurserymen were cautioned to be on the lookout for the black vine weevil, which can be a serious pest on taxus. Soil treatment and spray of Chlordane are the recommended control measures.

Need for continued federal aid for control of the Japanese beetle was stressed. Because nurserymen must live with the Japanese beetle, it is essential that there be uniform federal quarantine regulations instead of many and varied state regulations. It will be the responsibility of the nursery industry to see that federal quarantines are retained, and every individual nurseryman can assist by letting his elected representatives know how he feels on this problem.

Prof. R. B. Hull told something of the turf research being conducted at Purdue. He also reported that organization of the Hills Arboretum, located near Lafayette, has been nearly effected.

University facilities have been engaged the third week in January for the annual winter meeting at Purdue. The nationally known Purdue Men's Glee Club will be one of the star attractions of the banquet program.

Tour of Fort Wayne Parks

On the morning of August 6, nurserymen and families were taken on a conducted tour to points of special interest about Fort Wayne. The first stop was the new War Memorial coliseum, costing \$3,000,000 and seating as many as 10,000 persons for events such as basketball games. Large picture windows overlook a beautiful park area to the east and the burial place of Jonathan Chapman, better known as Johnny Appleseed.

The second stop was a park which features some 6,000 rose plants surrounding a beautiful series of formal pools of tropical water lilies, with a small lake in the background. The tour proceeded to 120-acre McMillan park, with rustic-style structures, eight baseball diamonds and a swimming pool serving some 1,300 persons a day.

Final stop was Fronky park, of 260 acres and with a 13-acre lake made from what was once a swamp. The bird sanctuary here was of par-

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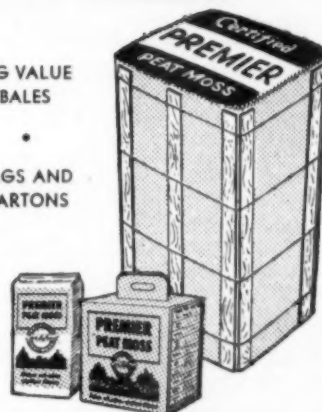
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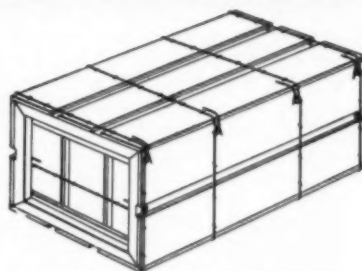
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Kills weeds, Nematodes and injurious Bacteria.

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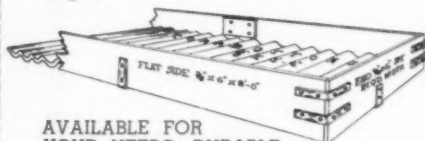
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WOOD WORKING PARTS AVAILABLE



ROOF RAFTERS . . . GABLE END BARS
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GUTTER SIDING.

Let us give you a quotation on your greenhouse needs.

ticular interest to the children. An open air theater seating 2,300 persons is used for local light opera presentations.

The tour ended at the Pion firm's nursery, where lunch was served. As members had come from the farthest corners of the state, many nursery stops were planned for the various return trips.

HEMEROCALLIS GROUP MEETS AT EVANSTON, ILL.

The annual meeting of the Hemerocallis Society, held at Evanston, Ill., July 16 to 18, was attended by 177 members, who toured outstanding gardens in the vicinity, viewed new introductions of outstanding hemerocallis and made plans for next year's convention—to be held at Valdosta, Ga.

Among the outstanding new day lilies viewed by the group were superior seedlings in the David Hall garden, at Wilmette, Ill., 40 of which have been sold to Gilbert H. Wild & Son, Sarcosie, Mo., for propagation and marketing. They include a large red, named Premier, which shows great improvement in size and substance, and Swansdown, a big, light lemon yellow with shadings of green.



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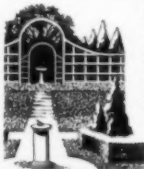
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J. L. Moreau, Jr., of N. J., says: "The time and money I spent on the course has paid for itself many times over. It advanced the organization of my own business by several years."

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Please tell me how I can increase
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FLOWERING TREES

[Continued from page 15]

lem, for it is difficult to make a limited selection. The saucer magnolia is often considered a shrub, but makes a fine small tree about 20 feet tall, with clean gray bark and interesting, if rather coarse, branching. The great white and rosy-purple flowers are familiar to all; the brilliant red seeds do not seem to gain the attention they deserve. Several of the varieties, mostly differentiated by flower characteristics, are well worth growing. *M. kobus borealis*, which seems to have no common name, is valued for its hardiness, yet the flowers appear so early that they are often nipped by frost. I find the fragrance, even though faint, most delightful. The leaves are much less coarse than those of the saucer magnolia. The habit of growth is upright and rather open, and growth is rapid—for a magnolia. Many references list a height of 70 to 75 feet for this; I know of no planted specimen more than 20 feet high.

In northern United States, the sweet bay, *M. virginiana* (*M. glauca*), does not grow too large for our purpose. Certainly, it is not in the top rank. Its fine, glossy foliage, white on the underside, however, and its long flowering period in early summer make it useful. The flowers are white, often partly hidden by the leaves, and fragrant. It is adaptable as to soils and will grow even in swampy areas. And last on this abbreviated list is the anise magnolia, *M. salicifolia*. Its habit is pyramidal to about 25 feet (in old specimens), and its flowers are large, white and exotically fragrant in late April or early May. The foliage is dense and not too large. With this species one does not have the long wait for first blooming that is characteristic of *M. kobus*. All magnolias have fleshy roots and should be moved only in the spring, preferably in small sizes, and balled.

Flowering Crab Apples

The problem of choosing among magnolias seems simple when looking over the flowering crab apples. There are so many of them and they vary so widely that a choice of the best is nearly impossible. Some selection seems necessary, however, for in this genus are many of our best flowering trees. All are adaptable to many soils, do not have many serious ills (except those natives susceptible to fire blight) and are, for the most part, of ironclad hardiness. Besides the ornamental value of the flowers,



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Economical WILT-PRUF comes to you in 1, 2 and 52-gallon containers. As an anti-transpirant for virtually all trees and shrubs, from rooted cuttings and liners up to maturity, use 1 part WILT-PRUF to 4 to 6 parts water; for perennials, annuals and other herbaceous plants, use 1 part WILT-PRUF to 7 to 9 parts water.

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these plants have other good characteristics. The fruit of most is exceedingly attractive, and in some cases—notably with Bob White and Sissipuk—it persists for many months. The habit of growth of many kinds lends interest at all seasons. Also, a few have attractive fall color. Briefly, then, here are some of the best of the crab apples.

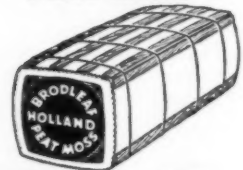
Malus arnoldiana, about 20 feet high, is dense in habit and bears large, fragrant flowers which fade from pink to white in early May. Its red and yellow fruits are attractive in September and October. *M. atrosanguinea* is fine-twigged, dense and somewhat bushy, usually about 18 feet high. Its carmine, single flowers fade to a less desirable, lighter shade in mid-May and are followed by fruits that are too dark red to show to best advantage. The foliage is unusually good. The deep pink buds of *M. floribunda* contrast prettily with the rather small flowers which fade to white in early May. This is a fairly large tree, usually about 20 to 25 feet, with a rounded, dense habit. Its many small fruits become red and yellow in late August and hold for almost two months.

The tea crab, *Malus hupehensis*, is not only one of the finest plants in the genus, but a first-rate plant by any standard. It has a vase-shaped habit and wand-like branches up to six feet in length, which are set from end to end, in early May, with rich pink buds that open as fragrant, white flowers. The

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small fruits color during September and October, but are of no great worth. *M. spectabilis* has large, semidouble pink flowers in mid-May and persistent, dull, yellow fruits. It has a more open habit than many of the species and grows to 25 feet. The variety, *M. s. riversi*, has fully double pink flowers, and those of *M. s. albiplena* are fully double white. *Malus toringoides* is unspectacular in flower, but is probably the best in fruit. The yellow and red fruits are attractive from August to late November. The foliage is like that of a hawthorn, and the habit is upright to 25 feet.

The popular Bechtel's variety is not widely recommended, for it does not do well uniformly and often sickens and dies soon after reaching a respectable size. Parkman's crab apple, is not universally successful, although lovely where it grows well.

Sourwood, *Oxydendrum arborcum*, seldom grows more than 30 feet in cultivation. Its main points of interest are its drooping panicles of creamy flowers in July (which yield a "vigorous" honey) and a magnificent, rich scarlet autumn color. The leaves are a lustrous, rich green during the summer.

Cherries

It is my personal feeling that we pay too much in coarse foliage and gaunt branching in the cherries for the spectacle of their flowers, which sometimes lasts less than a week. There are, however, a great many who do not agree. For them, then, there are, first, the varieties of *Prunus serrulata*, the Oriental cherry. Most of these are less than 25 feet in height. *P. s. amanogawa* is particularly useful as it is truly fastigate and usually grows about 20 feet tall. The flowers are light pink, semidouble and fragrant. *P. s. fugenzo* (also listed as James H. Veitch and as kofugen) has large, extremely double, rich pink, hanging flowers that fade somewhat lighter and persist for sometime. This tree has a broad, spreading form. Most popular—and hardiest—of these varieties is *P. s. kwanzan*. It is a broad-headed, dense tree about 20 feet tall. The large, fully double pink flowers make a fine contrast with the reddish, young foliage. The bark is a rich, reddish brown.

Prunus serrulata shirotae is the finest double white, with 2½-inch, fragrant flowers. The naden cherry, *P. sieboldi*, is a broad-headed, dense tree about 20 feet tall which flowers earlier than any other double cherry. The blooms are an ex-



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*Endothal (disodium 3, 6-endoxohexahydrophthalate) is a trademark of Pennsylvania Salt Manufacturing Company. Its manufacture and use as a defoliant and herbicide are covered by one or more of the following U.S. Patents: 2,550,494; 2,576,080; 2,576,081; 2,576,083; other patents pending.



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ceedingly light pink, semidouble and fragrant. Even earlier is the single-flowered higan cherry, *P. subhirtella*, with light pink blooms. The variety *P. s. pendula* is often grafted high on the understalk, giving rise to monstrosities. When grafted low, the top builds up to a respectable plant with a fountain-like habit. Another variety, *P. s. autumnalis*, has semidouble, pink flowers in spring and again in autumn. It grows about 18 feet high.

The Best Stewartias

The best of the stewartias, *S. ovata*, is too small and shrubby to fit our requirements here. It is, however, well-worth a much wider acceptance, for the large white flowers appear from June to August and are most attractive. The Korean stewartia, *S. koreana*, grows to about 30 feet, sometimes a little more, and has 3-inch, white flowers with golden stamens, which look like single camellias. These appear in July. The habit is pyramidal and dense, but in shade may be somewhat more open. The leaves turn a bright orange in the fall. The bark is interesting, for it flakes off in patches showing the lighter underbark. The Japanese stewartia, *S. pseudocamellia*, is more open in habit, a bit taller and has smaller flowers. The fall color is purple. Best results with any of these plants will be obtained if they are planted in a moist, peat soil.

This list does little more than scratch the surface of the subject. Together with the preceding list of shade trees, however, it should give the landscape designer a considerable amount of help in selecting trees that will fit the new fashions in house designs.

SCIENTISTS FIND FLY AN OAK WILT VECTOR

Two research scientists at the Ohio agricultural experiment station, Wooster, believe they have learned one way in which oak wilt spreads from tree to tree in a forest.

Charles L. Griswold and George J. Bart blame an insect known as *Drosophila melanogaster*, or pomace fly. This fly often is seen around decayed or overripe fruit.

The researchers discovered that the fly likes to feed on the liquid which occurs on an oak wilt fungus mat—probably because it has an odor similar to cider. Laboratory analysis showed the fly carries oak wilt spores both externally and internally. It may deposit them on

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healthy trees where any type of wound exists. Sap from the wound may attract the fly which bears the deadly oak wilt spores.

The two scientists placed a freshly wounded oak sapling in a cage with some drosophila and a small dish containing the fungus mat as food for the flies. They watched the drosophila flies feed on the sap coming from the wounds.

In about two months the young tree was dying from oak wilt disease. Presence of the fungus in the tree was confirmed by laboratory analysis.

The scientists point out that this discovery does not automatically solve the problem of keeping native oak trees alive and healthy. They believe a logical plan is to get rid of the source of infection—the fungus mats on a tree—rather than any carrier of the disease such as the pomace fly.

"Nature will help us to do this," Mr. Griswold said, "since in the early stages of infection, before mats form, leaves begin to discolor. If we can prevent the formation of fungus mats by removing the tree early, then perhaps we have stopped the flies from spreading infection further."



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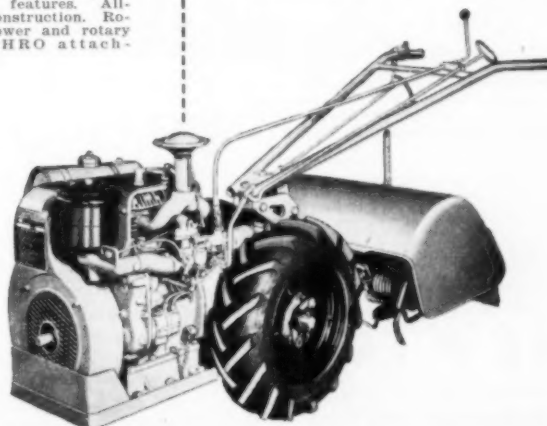
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THE ECONOMIST REPLIES

[Continued from page 16]

by a government agency, we could not strike out and do it entirely in our own way. It had to be done under laws and regulations resulting from the majority voice of taxpayers as expressed through their senators and representatives. Your industry had to be protected while at the same time gaining for itself the recognition and attention which it deserves. At all times the research had to qualify for the close scrutiny and strict rules of public servants entrusted with these responsibilities. The combination of circumstances amounted to as difficult a problem as that facing you when Mr. Average Homeowner comes to you desiring a good landscape job for an expenditure of 25 of our present-day dollars.

As with nurserymen, one of the annoying things about bureaucracy is the practice of being tied to habit, precedent and tradition or the past. In 1890 J. Howard Hale, a well-known nurseryman, onetime president of the American Association of Nurserymen, became a temporary employee of the federal government for the purpose of conducting a census of florists, nurserymen and seed growers. At that time, as you well know, Charlie, stock for planting home and commercial orchards was of primary importance in nurseries of the United States. Except for some special attention in the 1930 census this was the only time that detailed figures had been gathered for nurserymen. In both instances the emphasis was on that part of the crops which had to do with food production. In order to attain the recent census of nurserymen it was necessary to give undue attention to fruit or food stocks and lump together ornamental crops, which by now are the most important part of nursery sales in the United States.

The situation was much like that of the long-term planning for growing nursery crops, Charlie. As a result of the report which you looked over, it should be possible to lump the fruit stock crops and give more attention to ornamentals in the future. But it took this recent census to attain the information needed to convince those who do not know the industry but who have to approve government research projects. Now you know what caused a publication which resulted in your concern over dewberries and gooseberries.

This is but one example of a matter which should be of concern to

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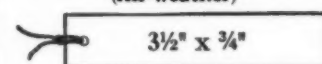
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all nurserymen. As a whole your industry has permitted itself to be poorly understood or misunderstood by millions of persons who are your potential customers. Communications among nurserymen and between them and consumers have not been adequate. If nurserymen are going to benefit fully from the part they can play in planting America, it is imperative that facts be available as a basis for formulating plans and policy. Further, it is important that some of these facts and figures be communicated to the American people. There are nearly 50,000,000 homes, most all of whose owners strongly want what nurserymen can supply for them and the communities of which they are a part.

The understanding your industry should have includes that of state and federal officials, whose sympathetic interest you need. The census report which you read made it possible to have the United States Department of Agriculture for the first time fully recognize nurserymen as a part of the farm economy of this country. That fact alone has already benefited your industry much and can have far-reaching, desirable results in the future.

Have no fears, Charlie, that as a result of their knowing and recognizing the nursery industry you are going to be faced with bureaucratic edicts. Government research agencies are not out "beating the bushes" for new problems or headaches. Their activities result only from the requests or actions of taxpayers or an industry. The effective work of men like President John, Secretary Dick and other officers and committees of the American Association of Nurserymen can gain for you research and other benefits which the industry wants and needs while also keeping a foot in the door so as to be at all times fully informed about what is going on in state and federal government affairs.

This brings us to the matter of the place of your trade associations in communicating the work of government to an industry like yours, Charlie. The census report is a good example. According to law the bureau of the census is not authorized to go much further than gathering, editing, tabulating and publishing figures. The nature of the publications and their wide range of uses require tables, graphs and charts to be made according to hard and fast rules. It is not expected that the publication is to serve folks of the industry only. The one thing

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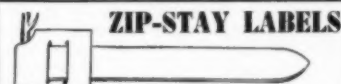
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No. 1	6 1/2 ins.	6 ins.	7 ins.	100	331 lbs.	4.50	42.50
No. 2	9 1/2 ins.	7 ins.	8 ins.	100	520 lbs.	5.00	47.50
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No. 4	13 ins.	12 ins.	...	25	Per 100 130 lbs.	Per 25 \$7.00 Per 100 \$23.75	Per 50 \$13.25 Per 100 \$19.75 Per 1000 \$210.00

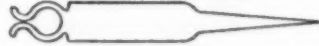
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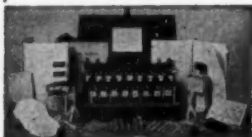
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THE MOST PRACTICAL METHOD OF DETERMINING FERTILITY OF THE SOIL
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which you do not have but which is taken for granted by most other industries (large or small business enterprises) is an industry service which then analyzes, interprets and digests the figures and presents the results in such a way as to be most interesting and useful to the industry. It is matters like this which I hope President John, Secretary Dick and their committees will give us a chance to talk over with them in the near future.

One other point bothers me, Charlie. That has to do with your reading matter 10 years hence. It cannot be taken for granted that your Uncle Sam will gather and publish figures about nurseries in 1960. Of one thing you can be sure: Any chance for having such research done in behalf of nurserymen depends upon the repeated and continued interest and effort of your national organization, its officers and committees.

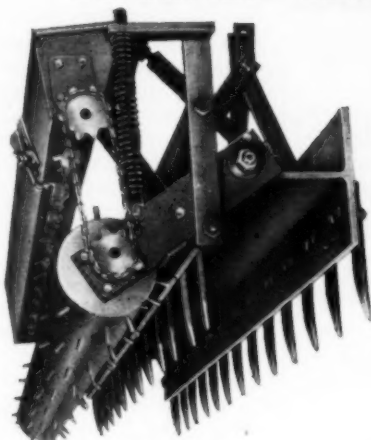
Remembering some long North Dakota winters and being concerned over your supply of reading matter I am asking the editor of the American Nurseryman to forward to you the final reports which followed the preliminary ones which you now have. When you receive these you will know why my mind will be at ease if you find yourself snowbound for an extended period of time. Also, you may find that from these publications you can pick out information which will increase the volume of business and the success of yourself and other nurserymen as you go about planting America.

To nurserymen, figures and economics have been something apart from the individuality which is the enviable pride of plantmen and architects or artists. However, Charlie, in as interdependent and complex a society as ours, it has become true that independence and individuality can be protected and retained only if figures and facts are available and used. Material accumulated from the observation of plants, their origin, identity, size, peculiarities and potential has become a fund of knowledge which nurserymen and their customers use daily. Much time and effort continues to be expended toward increasing and communicating such knowledge. Only recently are nurserymen discovering that it is just as important to know their production and market, its origin, identity, size, peculiarities and potential.

It is not enough for President John to develop and propagate the moraine locust. For the satisfaction

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SCARIFIES—LEVELS—PULVERIZES—SEEDS



Model AS

The Model AS Pulverizer, which is available with one seeder and one roller, is designed for the average landscape job. The two front rows of spikes scarify as the H-Beam flanges level, with the roller spiking and firming the soil. Distribution and coverage of seed is ideal, insuring better germination with much less seed.



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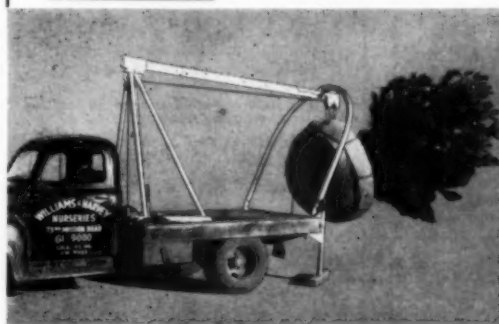
The Model B-53 Pulverizer, which is available with two seeders and two rollers, is designed primarily for the larger jobs, such as golf courses, parks, estates, highway shoulders, etc. The two rollers give twice the rolling and pressing effect and the seeders double the distribution of seed. Reseeding lawns is simple with this machine, since the two rollers spike the turf, leaving a good seedbed.

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of all concerned he has to know its requirements, limitations and possibilities. If one judges from the experience of other industries, Charlie, it is certain that the future of the nursery business depends as much on knowing the requirements, limitations and possibilities of its market as on knowing about the plants entering into such trade. This is going to require planting, patience, concerted effort and education of the industry and its consumers comparable to that which has entered into the accumulation of plant knowledge through several centuries. Then, as is now understood relative to plant knowledge, it is not enough merely to accumulate it. Effective production and marketing require communication among nurserymen and their customers.

Consumers have an effective means for indicating to nurserymen that they will not take a weeping beech, but want dogwood or foundation plantings. Even the novice soon learns to buy what is wanted rather than what is offered. Nurserymen in 1953 cannot hazard their businesses by carrying blocks of stock for which there is no want. I will find some other way of reading the American Nurseryman as soon as I can

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 This New,
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 Big Tree
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- New Lighter Weight
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This perfected new tree mover fits any standard truck. Ready now.

For specifications write at once.

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INSTANT COW MANURE. 10c pkt. makes 1 gal. 6 doz. for \$3.60.

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arrange for the transportation I want rather than that now being offered by the bus company. In the meantime this bus company might improve my attitude by means of better communications.

In an economy which causes competitors to have statistical, marketing and other economic information, nurserymen are going to find it just as difficult to disregard such considerations as I would find it difficult to disregard the automotive age and persist in using a horse and buggy for transportation in an American city.

Facts, figures, wants and communications make up a package of ideas which may seem novel to nurserymen, Charlie. To plant America still seems novel—and preposterous—to some nurserymen, but look at the results after only four years! On some blustery day when you are staying close to that pot-bellied stove, ponder over these ideas a bit. They could be the key to nursery sales and profits beyond the wildest dreams of even such optimists as nurserymen.

M. Truman Fossum

Bureau of Agricultural Economics
U. S. Department of Agriculture
Washington, D. C.

IMPORTED RASPBERRY

A black raspberry from India has been successfully grown in parts of southern Florida at or near sea level. The Mysore raspberry (named after the Indian state) came to the United States Department of Agriculture's subtropical experiment station at Gainesville, Fla., by way of Kenya and Natal, Africa, in 1948, and has done so well in its new environment that the station has approved it for southern Florida gardens. It is the first raspberry to produce successfully in that area.

The fruit of the raspberry is described by R. Bruce Ledin, horticulturist at the station, as "juicy, pleasant, slightly sweet, and of good flavor." It is from one half to three quarters of an inch in diameter, turns from red to dark purple on ripening, has relatively small seeds and drupelets about the size of the Northern raspberry.

The raspberry may be propagated by seeds, cuttings or tip layers, but Dr. Ledin said he favors propagation by cuttings or tip layers because in seed propagation the seedlings are susceptible to damping-off, the plants vary and germination is slow and irregular.

NORTH CAROLINA TOUR

[Continued from page 8]

tice in this area and one that serves to add many needed elements to the soil.

The next stop was at Luke Harkey's Nursery, where a lunch consisting of home-grown vegetables was served. This nursery, some 35 acres in extent, is approximately 25 years old. Luther Harkey, its owner, was one of the first leaders of the North Carolina association and guided it in its early days through turbulent times. The nursery is renowned for its efficiency; it includes no wasted space and probably grows more salable plants to an acre than any nursery in the state. Mr. Harkey has an interesting new ranch-type home overlooking a lake, with an excellent view of the nursery stock planted around the lake. He has a yard filled with numerous plants and beautiful flowers which are the envy of all visiting nurserymen. His flower beds show the influence of his versatile wife. He has both a wholesale and retail trade.

Steed's Nursery

The Steed's Nursery, Candor, where the nurserymen stopped next, is composed of 15 acres and is about 35 years old. It is owned and operated by Herb Steed, who is assisted by his son, Warren. The nursery is completely irrigated, having two lakes for this purpose, and about half its stock is grown in the shade of pine trees. This last point was something the tour revealed to be increasingly popular in the state; more nurserymen seem to be using pine groves than any other method of shading nursery stock and apparently find it successful.

Steed's Nursery is growing plants in gallon metal containers with much success. It specializes in magnolias, hollies and azaleas, and the plants show the good effects of the thorough irrigation system. Mr. Steed served the group ice cold watermelons and cantaloupes during the visit, and this respite was visibly enjoyed by all.

The tour then moved to the Gilmore Farm, Bonlee. Here they found about 1,000 head of cattle, most of them Brahman; 25,000 chickens; 500 hogs, and several hundred sheep and goats. The farm covers about 2,000 acres and is owned by Glenn Gilmore, of North State Nursery. The nursery grows some of its plants here, as well as the bulb and flower stock. The visit to the farm served as an introduction to the North



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Every year more growers are turning to ROTO-HOE for better cultivation and aeration—between rows, in narrow spaces, and on greenhouse benches.

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ROTO-HOE offers big savings in time, work and expensive equipment. There's no straddling, no breaking or injuring tops of trees, shrubs or plants. Its narrow width permits working right between the rows; over-all width 16 ins.; tilling width 12 ins. It's easy to control depth of cultivation, too. Easy maneuverability permits cross-cultivation even when plants are not equally spaced. Many nurserymen report excellent results using ROTO-HOE on greenhouse benches. (New center disc available for use on wood benches.)

ROTO-HOE'S 15 specially hardened teeth rotate at high speed, thoroughly mixing soil up to 6 inches deep. The dependable 2 h.p. Lauson gasoline motor has plenty of power for the work, and a variety of low-cost attachments greatly extend the usefulness of this equipment all year round.

Our new 12-inch rotary cutter attachment is unsurpassed for mulching weeds in nursery rows—mulches any size, will even cut off cornstalks close to ground. This attachment costs only \$24.00 additional — attaches to ROTO-HOE in a few minutes.

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50 lbs.— 1.90 per lb., delivered
100 lbs.— 1.80 per lb., delivered

Usually applied at rate of 1/4 to 1 oz. per 100 sq. ft., or as a spray at 1 to 4 lbs. per 100 gals. of water.

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State Nursery, which was the next and final stop on the schedule.

North State Nursery is located at Julian and consists of 150 acres. It was established about 40 years ago by W. T. Hanna, who retired in the early 1940's and sold out to Dr. C. M. Gilmore and Glenn Gilmore, the present owners. The two Gilmores are assisted by two other brothers, Paul and John, and by Glenn Gilmore, Jr. The nursery grows shrubs, broad-leaved and conifer evergreens, roses, fruit and nut trees and, in general, every plant grown and sold in the nursery industry. They use a Jiffy digger which, attached to a Ford tractor, is used for digging all plants in the winter and for spraying when necessary.

The nursery has 42-inch, cross-checked rows and keeps a flock of geese to help control the spread of grass and weeds. The geese have not been around long enough for the owners to know whether they are worth the cost. All the nursery's propagation work is done in cold-frames, and all potted plants are in beds in the wooded sections. Water for irrigation is provided by three ponds and is distributed through 4-inch aluminum pipe. There are a packing shed 60x120 feet, a salesyard and an open shed for equipment. There is also a small airport on the property to accommodate air-borne guests.

The tour of North Carolina nurseries was climaxed by a barbecue supper at North State Nursery. This was attended by prominent members of civic and social groups of Julian and surrounding communities. Former Gov. Scott Kerr made the principal address, using "Conservation and the Possibilities Afforded North Carolinians in the

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NOW 99 1/4% SOLUBLE 15-30-15

25 lbs.....	22c per lb.
80 lbs.....	26c per lb.
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2000 lbs.....	17c per lb.

NOW 99 1/4% SOLUBLE 20-20-20

25 lbs.....	22c per lb.
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25 lbs.....	26c per lb.
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THE JIFFY BALLING CO.

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Development of Natural Resources," as his subject.

Some of the prominent persons making the tour were C. N. Hastie, Charleston, S. C., who is the president of the South Carolina Nurserymen's Association; C. H. Brannon, head of the department of entomology, University of North Carolina, Raleigh; Frank LeClair, head of the landscape department, University of North Carolina; Jack Gartner, head of the ornamental horticulture field extension department, North Carolina State College; W. C. Ripley, Anderson, S. C., who is associated with Blackwell Nurseries, Semmes, Ala.; Wiley Taylor, Fairmont, N. C., who is associated with the Semmes Nursery, Semmes, and Norman Armstrong, Armstrong Tree Service, Chapel Hill, N. C.

L. C. House, prominent rose grower of Tyler, Tex., and Mrs. Cora Harris, garden authority for the Charlotte News, joined the tour at Charlotte, N. C.

All the participants claimed they had a wonderful trip and felt that the knowledge gained from the tour would show itself eventually in the better landscaping and more beautiful yards of North Carolina homeowners.

RED HILL NURSERY

[Continued from page 13]

helps tie together the indoor and outdoor parts of the construction, as do many other carefully planned devices.

Each section of the nursery is designed to fill a specific need. Offices house the landscape contracting end of the business. The extensive retail operation is housed in ample indoor salesrooms—the nursery actually has a much larger covered area than it appears to have.

With the completion and opening of the nursery in April, Mr. Halprin's part in the enterprise ended. It belongs to Harold B. Watkin and E. Kent Sibbald, with Jack Alvarado as its manager.

JAMES J. FRANKLIN, formerly of Alabama Polytechnic Institute, Auburn, was recently appointed assistant to the director of the Brooklyn Botanic Garden, Brooklyn, N.Y., by trustees of that institution.

FUNDS were approved by the board of managers of the New Jersey agricultural experiment station, New Brunswick, recently for construction of a new building for the department of horticulture.

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**• IT GRADES AND LEVELS • RAKES
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It eliminates most hand raking by its ability to perform 3 Big Jobs: (1) It Grades and Levels, (2) It Rakes Stones, (3) It Mulches the Soil. **And it does all of these jobs at a substantial saving over hand labor costs.**

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Trouble-free service without costly breakdowns is assured by the RE's rugged construction. Long-wearing teeth are made of heat-treated alloy spring steel, rigidly attached to carbon spring steel heads . . . easy to replace if necessary. Maximum working width is 8 feet. Raising, lowering and tilting of rake are controlled by the tractor operator, without leaving his seat.

Castors and wheels are available as optional accessories. Mounted on the rake frame, they regulate the penetrating depth of the teeth, and are especially useful in final raking operations where only a slight penetration is desired.



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- Tines are fully guaranteed.

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Write:

**MERRY TILLER, 816 Skinner Building
P. O. Box 1835, Seattle 11, Wash.**



ROOTING ILEX OPACA

[Continued from page 12]

While timing seems to be critical during the month of August, after that date cuttings can be taken at almost any time through the winter with varying results. We have taken cuttings here during every month from August to March, and we seemed to find that early batches rooted best, but late batches in January and February were also successful. However, it is an advantage to root cuttings early, as will be seen.

The best type of cutting is one made from a tip growth of firm, current season's wood. If the stock plants are in good health, they will have made shoots of from four to six inches in length, perhaps with two side branches of slightly less length. All these shoots can be used for cuttings, but the terminal shoot, being stronger, makes the best plant when once rooted. However, if good cuttings of this type are scarce, then the side growths should by all means be used. No difference will be noticed in the subsequent development of the plants. These cuttings should be removed from the parent plants early in the morning and brought in under cover where they can be stored and kept cool in the shade, well-damped down, until the cuttings are made. When the cuttings are made, most of the leaves can be removed with a knife without affecting the speed and vigor of rooting. When finally trimmed the cuttings should be about four or five inches long and should retain about four or, at the most, five leaves at the top. The condition of the wood is of some importance. The stems should be firm and brownish green, without any obvious signs of being soft. The wood should feel firm between the fingers and should not have too much "give" when bent. Cuttings in this condition should root well.

Wounding

This technique has been discussed in these columns many times, but the more we use wounding in one form or another, the more valuable we find it to be. With most types of cuttings we are coming to standardize on what I call the "heavy" wound, and it is this one that we use on our ilex cuttings. If the stem of the cutting is stout and firm, we remove a thin slice from the base of the cutting, using a sharp knife. The slice will be about an inch to an inch and a half long and will

cut through the outer bark and green tissue beneath, without cutting heavily into the central woody area. It requires a little practice to gauge the cut, but after a few cuts the correct depth is easily found. This heavy wound has a most beneficial effect upon the rooting of *I. opaca*. Some growers are trimming the base of their cuttings, using a long slanting cut. We have tried this, but we do not find it so helpful as the full heavy wound, which exposes a large area of the internal tissues at the base of the cutting. The same effect can, of course, be obtained on the central shoot by stripping off the smaller side branches and, if the whole group has been removed from the stock plant as one unit, this is an excellent way of making the cuttings and wounding at the same time.

Hormone Treatments

The use of hormones is, to a certain extent, tied in with the maintenance of conditions of high humidity, and I would refer you to the section later in this article where this is considered. However, leaving water and humidity out of the picture for the moment, we have found that *I. opaca* will apparently respond to much higher concentrations of hormones if the wood is in the right condition. I cannot overemphasize this last remark, and we must, perforce, refer back to what I said earlier about batches of cuttings turning black.

If the cuttings are on the borderline of hardness, then hormones may produce this blackening and wholesale destruction; but, if the cuttings are firm and ready to take, then they will respond to somewhat strong hormones. In the past we have always used Merck's No. 3 powder, treating the cuttings immediately after wounding. Results have been good, but there was always that annoying percentage of cuttings which were healthy, well-callused, but did not root. Last year we treated all our cuttings with 2 per cent indolebutyric acid in talc. This is just about three times as strong as Merck's No. 3. The results were excellent. Rooting was much even, stronger and more rapid. There was no sign of abnormal rooting; neither was there any obvious sign of hormone damage, such as blackening of the base of the stem, yellowing and dropping of leaves. However, at the same time that the main batch was inserted, we also inserted a small test of 25 cuttings treated with 2, 4, 5-Trichlorophenoxy propionic

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acid, 1 per cent in talc. Now this powder, as readers of my recent article on rhododendrons may remember, was the one which gave us the best results on the extremely difficult red varieties. It is considered to be about 15 times as strong as Merck's No. 3. I will quote the results of this small test and let it speak for itself.

2 per cent IBA. 25 cuttings.

Inserted August 29, 1952.

Lifted November 9, 1952.

7 cuttings strongly rooted.

7 cuttings lightly rooted.

10 cuttings callused.

1 cutting dead.

Total: 56 per cent rooted.

1 per cent 2,4,5-TP.

25 cuttings inserted same time and in same greenhouse.

17 cuttings heavily rooted.

8 cuttings well-rooted.

Total: 100 per cent rooted.

Although this was only a small test, the difference in the vigor of rooting between the two groups of cuttings was most marked.

Those rooted with the 2, 4, 5-TP were all strongly rooted, with a vigorous basal root system, yet without any sign of abnormality or hormone damage. It should be noted that this much stronger powder also rooted the cuttings 100 per cent.

With this small test to encourage us, we went on to use this same powder on cuttings of *Osmanthus ilicifolius*—a larger batch this time—and out of 1,900 cuttings, we rooted 1,800. We intend to try out 2, 4, 5-TP again this season, but first results with it are indeed encouraging. I think that we are justified in saying that from these results *O. opaca* seems to respond to treatments with much stronger hormones.

Medium

What is the best medium to use? This also is a vexing question. Of course, the best one is always the one with which you best succeed. With us it has always been a 50-50 mixture of coarse sand and acid-type Dutch peat. We find the sand-peat mixture much better than plain sand and, if it is not possible to move the cuttings immediately after they are well-rooted, the cuttings will continue to grow well in the mixture. We use this peat mixture even under conditions of high humidity and excessive use of water. This brings us to the final point.

Humidification and Use of Water

It may seem a little odd to start by talking about temperature, but in propagation the use of water is often closely connected with rela-

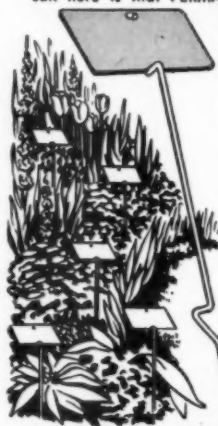
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tively high temperatures. I. opaca cuttings seem to require plenty of heat, as long as it is allied with ample supplies of water. Dr. L. C. Chadwick, at Ohio State, has proved that excellent rooting of I. opaca can be obtained by maintaining the cuttings under conditions of high temperature—95 to 110 degrees Fahrenheit—plus 100 per cent humidity. He also maintains that under these conditions the use of hormones is unnecessary. Under normal nursery conditions we have found that if the cuttings are inserted in a tight house and kept close, with high day temperatures of 90 to 95 degrees F. coupled with generous use of the fog line, results are excellent.

There seems to be a distinct difference, however, between the use of a fog line and the generous application of water to the cutting benches from a hose. Both are necessary. We insert our cuttings and use the hose immediately to flood them in. Thereafter, we use the fog lines two or perhaps three times daily, as the weather may require, and then about twice a week we flood the benches from the hose. The net result of this treatment is to apply a considerable quantity of water to the cuttings, and they seem to revel in it. The combined effect of heat, humidity, hormones and water roots them rapidly and well. It is interesting to note, however, that, in small tests made last year with I. opaca outside under constant mist, the percentages rooted and the general vigor of rooting was poor. This I attributed to the fact that neither the temperature nor the humidity was high enough under such conditions to achieve satisfactory results.

After Treatment of Rooted Cuttings

I have already mentioned that early rooting is to be preferred, and this is so because cuttings rooted early in the fall can be removed from the houses, thus making way for a second batch of cuttings. Once the cuttings are well-rooted in the benches, we lift them and heel them into deep flats, using some of the peat-sand rooting medium for the purpose. We keep the flats in the same house for about a week, until the cuttings have begun to make new roots, and then we take the flats out to deep frames. If cuttings are inserted at the end of August or early September, they should be rooted in eight weeks and can thus be removed from the houses early in November. This should allow plenty of time for the cuttings to harden off and prepare for the winter. These cuttings seem to be able to stand the move



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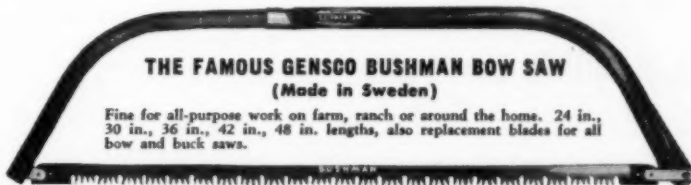
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without trouble and, once in the flats, they are ready for immediate removal to the planting field next spring. Late batches of cuttings inserted in the greenhouse can also usually be planted out into prepared beds by the end of April, as long as irrigation is available.

Propagation in Coldframes

By careful attention to timing, excellent stands can be had in coldframes, adapting the methods outlined above. The following procedure is recommended: Take the cuttings as early as possible, certainly not later than the first week of September. Wound them, treat with a strong hormone, at least 2 per cent IBA, and insert in a bed of sand and peat directly into the frame. Flood the cuttings in as they are inserted, sash by sash. By "flood," I mean pour the water on so that the medium and the ground beneath are saturated with water. Immediately cover the frames with close-fitting sash, shade slightly and keep close for some weeks. Daily sprayings may be necessary for some time according to the weather; if in doubt, err on the side of overdoing the water rather than withholding it. As the weather cools, shading and water can be reduced and, by the time winter comes, many of the cuttings will have rooted. They should not be disturbed, however, because many more will root the following spring, and it is best to leave the cuttings where they are until late in April. By that time a large percentage should have rooted and, if they can be lifted and planted out just before new growth commences, the cuttings should take right away and grow on with a minimum of loss. If you can afford to wait, then the cuttings can, with advantage, stay over until the following September, when they can be lifted with an excellent root system for lining out.

LOHSES VISIT HAMBURG

Mr. and Mrs. Henry Lohse, Henry Lohse Nursery, Dixon, Ill., left the United States early in August for Hamburg, Germany, where they are visiting the international horticultural exhibition and many of the nurseries in the Hamburg area.

During their stay at Hamburg the couple are residing with Mr. Lohse's 88-year-old mother, whom he has not seen in 29 years. On their return journey, the Lohses will stop a few days at Amsterdam, Holland, for a visit to some of the nurseries in the Boskoop area.

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